

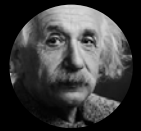
INTERNATIONAL

# Televes®

PRODUCT  
GUIDE 2019



PASSION for QUALITY



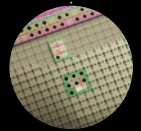
ALBERT EINSTEIN **IQ: 190**  
Developer of the theory of relativity



MARIE CURIE **IQ: 200**  
Pioneer in the field of radioactivity



WILLIAM JAMES SIDIS **IQ: 300**  
At age 8, he spoke 8 languages  
At age 40, he spoke 40 languages



INTELLIGENT ANTENNA  
WITH TFORCE TECHNOLOGY

**Ellipse**<sup>®</sup>

# INTELLIGENCE TAKEN TO THE LIMIT

A new concept of DTT antenna that eliminates any interference even  
in the limits of the TV band,  
combining a break-through design in a 100% stainless mechanical  
frame that houses the new generation of TForce electronics,  
featuring a revolutionary SAW filter.

[www.ellipse.televes.com](http://www.ellipse.televes.com)

**Televes**<sup>®</sup>

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New

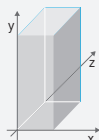


Pack



TForce Technology

Dimensions: xyz  
(width x height x depth)



### Integrated protection against LTE:

**LTE790** Channel 60 filtering (790MHz)

**LTE700** Channel 48 filtering (694MHz)

**AUTO LTE** Channel 48/60 filtering  
(automatic switching)



### Colour in product

**O** Orange

**W** White

**R** Red

**Rb** Red-brick

**G** Grey

**Gr** Graphite

**B** Black

**V** Violet

### Packaging type for coaxial cable

**O** Plastic reel

**C** Cardboard reel

**W** Wooden drum

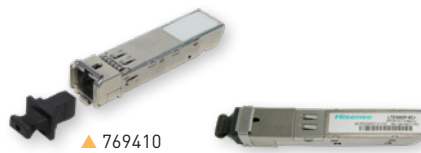
**P** Plastified coil



| Ref.  | Description   |   |
|---|---|---|
| <b>FIBREDATA SOLUTIONS: GPON (Gigabit-capable Passive Optical Networks)</b> |   |   |
| <b>GPON HEADENDS</b>  |   |   |
| 769401  | OLT512: 8x PON + 4x Gb Ethernet + 4x 10GbEthernet/Gb Ethernet (Up to 512 users) <sup>(1)</sup>  | 1 |
| 769420  | Modular OLT3072, for 3 16xPON cards and 2 2x10Gb switch cards, (Up to 3072 users) <sup>(1)</sup>  | 1 |
| 769421  | 2x10Gb Switch Card (for OLT3072, Ref. 769420)   | 1 |
| 769422  | 16xPON Card (for OLT3072, Ref. 769420)  | 1 |
| 769601  | Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT)  | 1 |
| 769410  | SFP GPON B+ 1 Fiber "SC/PC"   | 1 |
| 769413  | SFP GPON C+ 1 Fiber "SC/PC"   | 1 |
| 769411  | SFP Gb Ethernet "RJ45"  | 1 |
| 769412  | SFP 10Gb Ethernet 2 Fibers  | 1 |
| <b>VIDEO OVERLAY HEADENDS</b>   |   |   |
| 234305  | T.OX Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path  | 1 |
| 234811  | T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 10dBm w/o Return Path<br>RF Automatic Adjustment and Temperature Stability   | 1 |
| 234806  | T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 6dBm w/o Return Path<br>External modulation and RF Automatic Adjustment (up to 30Km). DOCSIS 3.1 compatible                                  | 1 |
| ★ 769801  | Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path<br>19" Rack Mount, 1RU  | 1 |
| ★ 769812  | Optical Transmitter CATV 1550nm "SC/APC" Po 6dBm w/o Return Path<br>External modulation and RF Automatic Adjustment (up to 30Km). DOCSIS 3.1 compatible<br>19" Rack Mount, 1RU                | 1 |
| 769610  | Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology)<br>9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm<br>+ Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT) | 1 |
| ★ 769612  | Optical Amplifier / Multiplexer "SC/APC" 17dBm (YEDFA Technology)<br>9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm<br>+ Double Power Supply Unit -48Vdc. 19" Rack Mount, 1RU (for OLT) | 1 |
| 769611  | Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology)<br>33i: 32x1310/1490nm - 1x1550nm, 32o: 32x1310/1490/1550nm<br>19" Rack Mount, 2RU  | 1 |
| 234220  | T.OX Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology)   | 1 |
| 234221  | T.OX Optical Amplifier / Multiplexer "SC/APC" 19dBm (EDFA Technology)<br>2i: 1310/1490nm - 1550nm, 1o: 1310/1490/1550nm   | 1 |
| 234228  | T.OX Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology)<br>9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm  | 1 |
| 5629  | T.OX Switch-mode Power Supply Unit 120W 24V-5A  | 1 |
| 563901  | T.OX Switch-mode Power Supply Unit 120W 24V-5A (110Vac & UL Listed)   | 1 |
| 2337  | T.OX Optical Splitter 1260...1650nm "SC/APC" 2W 4dB   | 1 |
| 2339  | T.OX Optical Splitter 1260...1650nm "SC/APC" 4W 7dB   | 1 |
| 234401  | T.OX Optical Splitter 1260...1650nm "SC/APC" 8W 10dB  | 1 |
| 234501  | T.OX Optical Splitter 1260...1650nm "SC/APC" 16W 14dB   | 1 |
| 234601  | T.OX Optical Splitter 1260...1650nm "SC/APC" 32W 17dB   | 1 |



▲ 234811      ▲ 234806



▲ 769410      ▲ 769413

## FIBREDATA SOLUTIONS

TELEVES COST-EFFECTIVE  
QUAD PLAY SOLUTIONS OVER  
OPTICAL FIBER



▶ OLT3072



▶ OLT512

Compact, reliable, affordable and easy to manage GPON and RF overlay products.

Multiple-play service enabling high speed data, VoIP, 802.11Ac Wi-Fi, video (IPTV and RF overlay) PoE, etc.



▲ 769612



▲ 769812



▲ 769611



▶ MORE INFORMATION ON  
OUR FIBREDATA BROCHURE:  
[en.televes.com/fibredata](http://en.televes.com/fibredata)

(1) AC/DC Adapter included.

# GPON TECHNOLOGY

| Ref.  | Description   |    |
|---|---|----|
| <b>FIBREDATA SOLUTIONS: GPON (Gigabit-capable Passive Optical Networks)</b> |   |    |
| <b>DISTRIBUTION</b>   |   |    |
| ★ 234740  | WDM Module Optical Multiplexer/Demultiplexer 1i/2o "SC/APC": GPON+RF: Data (1310/1490nm) - TV (1550nm)        | 1  |
| 233750  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 2W 4dB  | 1  |
| 233950  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 4W 7dB  | 1  |
| 234450  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 8W 10dB   | 1  |
| 234550  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 16W 14dB  | 1  |
| 234650  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 32W 17dB  | 1  |
| ★ 233850  | Optical Splitter, PLC Component, 1260...1650nm "SC/APC" 64W 20dB  | 1  |
| 231502  | F.O. Patch/Splitting Box 2 to 4 Outs  | 1  |
| 232622  | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC"- "SC/PC" 0.2m  | 5  |
| 232621  | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 2m (Bag B4)  | 10 |
| 236410  | Optical Attenuator 1310/1550nm "SC/APC" 2dB   | 1  |
| 236411  | Optical Attenuator 1310/1550nm "SC/APC" 5dB   | 1  |
| 236412  | Optical Attenuator 1310/1550nm "SC/APC" 10dB  | 1  |
| <b>CUSTOMER PREMISE EQUIPMENT: ONT (Optical Network Terminal)</b>           |   |    |
| 769507  | ONU Basic Module: 1x GB Ethernet  | 1  |
| 769508  | ONU Standard Module: 1x GB Ethernet, RF Overlay   | 1  |
| 769501  | Office ONT Module: 4x GB Ethernet + 2x FXS + 2x USB, WLAN b/g/n   | 1  |
| 769516  | Office AC ONT Module: 4x GB Ethernet + 2x FXS + 2x USB, WLAN b/g/n/ac   | 1  |
| 769502  | Home ONT Module: 4x GB Ethernet + 2x FXS + 2x USB, WLAN b/g/n, RF Overlay                                     | 1  |
| 769514  | Home ONT Module: 4x GB Ethernet + 2x FXS + 2x USB, WLAN b/g/n/ac, RF Overlay                                  | 1  |
| ★ 769509  | Home ONT Module: 4x GB Ethernet/PoE + 2x FXS + RF Overlay   | 1  |
| <b>OPTICAL MICRO-NODES</b>  |   |    |
| 231111  | Domestic Optical Receiver 1550nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology (Optical Level Control) | 1  |



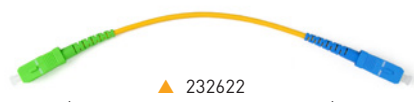
▲ 234740



▲ 234650



▲ ONT



▲ 232622  
(Adaptation among APC and PC)



▲ 231111

**Technical Characteristics: ONT + ONU**



| References                         | 769501     | 769516         | 769502 | 769514 | 769507     | 769508         |   |
|------------------------------------|------------|----------------|--------|--------|------------|----------------|---|
| <b>Models</b>                      | <b>ONT</b> |                |        |        | <b>ONU</b> |                |   |
|                                    | OFFICE     | OFFICE         | HOME   | HOME   | BASIC      | STANDARD       |   |
| RF-Overlay                         | ✗          | ✗              | ✓      | ✓      | ✗          | ✓              |   |
| WiFi (802.11 b/g/n) (2x2) 2.4      | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| WiFi (802.11 b/g/n/ac) (2x2) 2.4/5 | ✗          | ✓              | ✗      | ✓      | ✗          | ✗              |   |
| USB                                | 2          | 2              | 2      | 2      | ✗          | ✗              |   |
| FXS Ports                          | 2          | 2              | 2      | 2      | ✗          | ✗              |   |
| ETH 10/100/1000BASE-T Ports        | 4          | 4              | 4      | 4      | 1          | 1              |   |
| NAT/NAPT                           | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| Firewall                           | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| VPN pass-through                   | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| PPPoE Terminal                     | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| OMCI                               | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| TR-069                             | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| CLI                                | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| WebGUI                             | ✓          | ✓              | ✓      | ✓      | ✗          | ✗              |   |
| <b>General</b>                     |            |                |        |        |            |                |   |
| Temperature conditions             | °C         | -5...65        |        |        |            | -5...65        |   |
| Relative humidity                  | %          | 0...95         |        |        |            | 0...95         |   |
| Power consumption                  | W          | 19             | 19     | 19     | 19         | 7              | 7 |
| Dimensions (Width x Hight x Depth) | mm         | 212 x 45 x 212 |        |        |            | 143 x 34 x 107 |   |

| Ref.                   | Description  |      |
|------------------------|--|------|
| <b>COAXDATA SERIES</b> |  |      |
| <b>GIGABIT: 1Gbps</b>  |  |      |
| 769301                 | Transmitter/Receiver Router 1Gbps-HDTV Data over Coaxial, PLC and WiFi (Low Power WiFi option), 3 Ethernet Connectors & 2 "F" Connectors | 1    |
| 769201                 | Transmitter/Receiver 1Gbps-HDTV Data over Coaxial and PLC, 2 Ethernet Connectors & 2 "F" Connectors                                      | 1    |
| 769202                 | Transmitter/Receiver 1Gbps-HDTV Data over Coaxial and PLC, 1 Ethernet Connector, 1 SFP (Optical Fiber) Connector & 2 "F" Connectors      | 1    |
| 769203                 | Transmitter/Receiver 1Gbps-HDTV Data over Coaxial, 1 Ethernet Connector & 2 "F" Connectors   | 1    |
| <b>MANAGEMENT</b>      |  |      |
| ★ 769330               | CoaxBox Device: Managing and Monitoring for CoaxData Networks  | 1    |
| <b>ACCESSORIES</b>     |  |      |
| 769210                 | Ethernet - SFP Adapter 1000Base-X 2 Fibers, Point to Point (Media Converter)   | 1    |
| 769220                 | Diplexer Filter 2i/1o "F": LPF[2...68MHz] - HPF[87...2150MHz]  | 1/10 |
| 640301                 | Wall Mount   | 1    |



▲ 769201



▲ 769202



▲ 769203

## COAXBOX



### COAXBOX DEVICE



### MANAGING AND MONITORING THE WHOLE COAXDATA NETWORK FROM A SINGLE DEVICE

CoaxBox includes the following applications:

- AdminService: for the configuration of the device itself.
- AccessControl: for CoaxData devices configuration.
- CoaxProv: for the provisioning of CoaxData devices equipped with MyNET WiFi (Ref. 769301).

## COAXDATA SERIES



▲ 769301

### COAXDATA, IMPROVING CURRENT COAXIAL INFRASTRUCTURE

No works required. Data access up to 1 Gbps over television cable.

CoaxData turns the coaxial television network and/or the electricity grid into high-speed data networks. The easy installation together with the use of existing networks allows the hotel to keep operating during commissioning.

This technology supports a fast and easy implementation of value-added services for the guest (Wi-Fi, TV, Extended TV, ArantiaCast, digital signage).

Televes' Mynet WiFi technology allows you to configure your CoaxData Wireless Access Point in low power mode, hence the possibility to create network access microcells providing an improved performance to all users connected.



▲ 640301

# ARANTIA.TV



## IPTV AND INTERACTIVE TV

**Arantia TV includes all the services** needed to respond to its customers' requirements within a simple IPTV platform in all kinds of projects, including hotels, hospitals, operators, companies and residential buildings. Indeed, it provides additional **new tools in order to enhance business operations.**

- **New multi-screen Middleware:**
  - STB Nemesis V2 Middleware, LG and Samsung televisions\*.
  - Apps for iOS and Android devices\*.
- Third party systems integration:
  - Property Management Systems,
  - NO/NC Alarm Systems.
- **Multiple Interactive Services:**
  - Television, Video on Demand, News, Messages, Check Expenses, Information Services...
- Integration with Arantia DS (Digital Signage) and Arantia Cast (content sharing on the TV from mobile devices via Chromecast).
- A powerful system management tool: Allows managing all the existing functionalities and includes a complete and intuitive user friendly interface design tool.
- Customizable user interface, according to the requirements of every project and even every room within the same project.

\* Check compatible TV models.

| Ref.                              | Description  |   |
|-----------------------------------|--|---|
| <b>COMPACT HE-21 IPTV HEADEND</b> |  |   |
| 831010                            | HE-21 4U Chassis                                     | 1 |
| 831011                            | HE-21 4U Chassis with Redundant Power Supply         | 1 |
| 831012                            | HE-21 1U Chassis                                     | 1 |
| 831110                            | HE-21 DVB-S/S2 Input DUAL                            | 1 |
| 831114                            | HE-21 DVB-T/T2 Input QUAD                            | 1 |
| 831115                            | HE-21 DVB-T/T2 Input DUAL                            | 1 |
| 831118                            | HE-21 DVB-IP Input                                   | 1 |
| 831119                            | HE-21 Corporate Channel License                      | 1 |
| ★ 83031801                        | HE-21 Arantia TV Middleware up to 50 Users           | 1 |
| 831111                            | HE-21 DVB-S/S2 Input QUAD                            | 1 |
| 831122                            | HE-21 HDMI Input QUAD                                | 1 |
| 831121                            | HE-21 ATSC Quad Input                                | 1 |
| ★ 831124                          | HE-21 SDI Quad Input                                 | 1 |
| 831123                            | HE-21 DVB-S/S2/T/T2/C/ISDB-T Dual Input with Dual CI | 1 |
| 830325                            | HE-21 Middleware Lite & TV Management Tool           | 1 |
| <b>MODULAR HEADEND IPH2011</b>    |  |   |
| 831202                            | 4RU Chassis with Dual Power                          | 1 |
| 831203                            | Chassis Switch + 2xIPout                             | 1 |
| 831205                            | 3 ASI Input SC/3ASI Module                           | 1 |
| 831207                            | 4 DVB-S2 Input Module                                | 1 |
| 831209                            | 4 COFDM Input Module                                 | 1 |
| 831210                            | 4 QAM Input Module                                   | 1 |
| 831211                            | Dual Descrambler with CI Module                      | 1 |
| <b>TRANSCODER</b>                 |  |   |
| 832201                            | Transcoder/Streamer Live                             | 1 |

## IPTV HE-21 HEADEND



Arantia IPTV HE-21 headend allows the reception of digital services through its DVB-T/T2, DVB-S/S2, DVB-C, ISDB-T, ATSC, HDMI, SDI & IP input modules that are encapsulated in IP packages and streamed through an IPTV network.

- **Cost-effective:** Adjusted price taking into account all the features that incorporates, such as the Session Announcement Protocol (SAP) or Universal Plug and Play (UPnP).
- **High Density:** Many inputs and software options in a reduced space of 4U.
- **Multi-Standard:** Support for most of the European and American Digital TV (DTV) standards.
- **Web Administration.**
- **Descrambling** with DVB-CI.
- **HEVC & 4K** compatible.
- Optional Products: Corporate Channel Licence, Interactive Services Middleware and Middleware IPTV Lite.



▲ Transcoder/Streamer Live



▲ VoD Server



| Ref.  | Description  |   |
|---|--|---|
| <b>INTERACTIVE TELEVISION HEADEND (ITV)</b>     |  |   |
| 830311  | VOD Server 20 Streams 1TB SATA                                 | 1 |
| 83031201  | VOD Server 95 Streams 500GB (1,2TB) SAS                        | 1 |
| 83031203  | VOD Server 95 Streams 1TB (2,4TB) SAS                          | 1 |
| ★ 83032003                                      | Arantia TV Middleware up to 100 Users                          | 1 |
| ★ 83032103                                      | Arantia TV Middleware from 101 to 499 Users                    | 1 |
| ★ 83032203                                      | Arantia TV Middleware from 500 to 750 Users                    | 1 |
| ★ 83032303                                      | Arantia TV Middleware over 750 Users                           | 1 |
| ★ 83032004                                      | Arantia TV Middleware Marriott up to 100 Users                 | 1 |
| ★ 83032104                                      | Arantia TV Middleware Marriott from 101 to 499 Users           | 1 |
| ★ 83032204                                      | Arantia TV Middleware Marriott from 500 to 750 Users           | 1 |
| ★ 83032304                                      | Arantia TV Middleware Marriott over 750 Users                  | 1 |
| ★ 83032402                                      | Arantia TV Backup Middleware Marriott with DVB-S/S2 Quad Input | 1 |
| 830319  | Arantia TV Set-Top Box License                                 | 1 |
| ★ 83050701                                      | Arantia TV LG Compatible Televisions License                   | 1 |
| ★ 83050702                                      | Arantia TV Samsung Compatible Televisions License              | 1 |
| 830103  | Alarm Monitor Device   | 1 |
| 830506  | TV NO/NC Alarm System Integration                              | 1 |
| <b>IPTV - ITV PERSONALIZATION &amp; OPTIONS</b> |  |   |
| 830501  | TV Property Management System (PMS) Interface                  | 1 |
| <b>IPTV - ITV IN ROOM EQUIPMENT</b>             |  |   |
| ★ 830108  | Nemesis V2 Set-Top Box   | 1 |
| ★ 830216  | Universal RF Remote Control                                    | 1 |
| ★ 830217  | Power Supply Unit for Nemesis V2 Set-Top Box (EU plug)         | 1 |
| ★ 830218  | Power Supply Unit for Nemesis V2 Set-Top Box (UK plug)         | 1 |
| ★ 830219  | Nemesis V2 Set-Top Box TVI Extension - Samsung                 | 1 |
| ★ 830220  | Nemesis V2 Set-Top Box TVI Extension - LG                      | 1 |
| 830207  | LG/Samsung Remote Control                                      | 1 |
| <b>IPTV - ITV ACCESSORIES</b>                   |  |   |
| 831304  | 19" Rack 22U (Mounted & Adjusted)                              | 1 |
| 831301  | 19" Rack 27U (Mounted & Adjusted)                              | 1 |
| 831302  | 19" Rack 37U (Mounted & Adjusted)                              | 1 |
| 831303  | 19" Rack 42U (Mounted & Adjusted)                              | 1 |
| 831311  | Rack Rails for HE-21   | 1 |
| 831402  | Layer 2 Ethernet Switch 100TX 24 Ports + 4 SFP Ports           | 1 |
| 831403  | Layer 2 Ethernet Switch 100TX 48 Ports + 4 SFP Ports           | 1 |
| 831404  | VPN Router   | 1 |
| 831504  | CAT6 UTP Cable 1m  | 1 |
| 831701  | Uninterruptible Power Supply (UPS)                             | 1 |
| 831401  | Layer 3 Ethernet Switch 1000TX 24 Ports + 4 SFP Ports          | 1 |
| 831406  | Layer 2+ Ethernet Switch 1000TX 24 Ports + 4 SFP Ports         | 1 |
| 831503  | Transceiver 1000SX SFP LC MMF (Multi-Mode Fiber)               | 1 |
| 831506  | Transceiver 1000LX SFP LC SMF (Single-Mode Fiber)              | 1 |
| 831505  | Transceiver 1000T SFP RJ-45                                    | 1 |

## STB NEMESIS V2



Powerful Set-Top-Box designed to deploy interactive services specifically designed and developed to serve the hospitality environment.

Based on the AOSP (Android Open Source Project) with a complete management tool and an intuitive user application, it is the perfect choice to offer information and entertainment services.

- MPEG2, MPEG4-AVC / H264 and H265 decoding capabilities.
- Resolutions up to 4K UHD.
- Connectivity: Gigabit Ethernet, WiFi 2.4 GHz and 5GHz and Bluetooth 4.1.
- Remote management and monitoring.
- Accessories: Power supply 10W (5V/2A) and remote control (Bluetooth and IR)

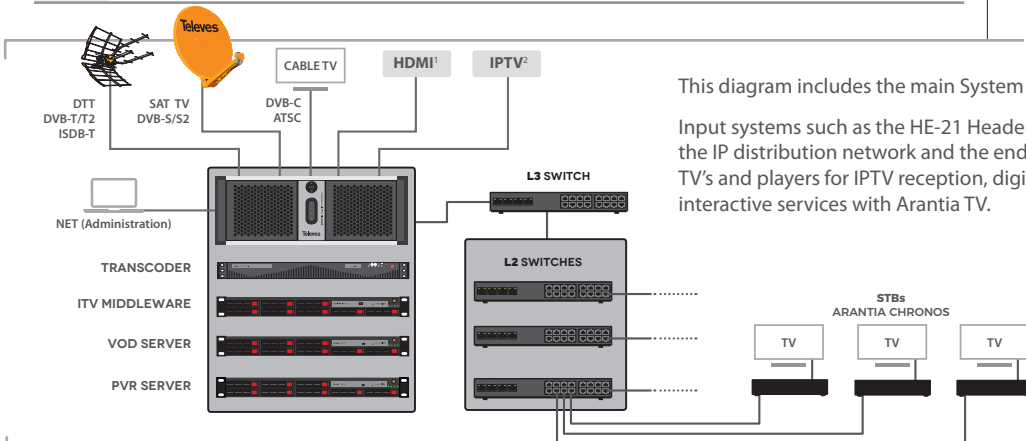


▶ Rack 27U (Mounted and adjusted)



▲ 831403

### Arantia TV: Main System Components



This diagram includes the main System Architecture components:

Input systems such as the HE-21 Headend, MW Server, Multiscreen Transcoder..., the IP distribution network and the end user devices like the STBs Nemesis V2, TV's and players for IPTV reception, digital signage with Arantia DS or advanced interactive services with Arantia TV.

- 1 The HDMI input allows including in the system audio and video streams from HDMI sources such as encoders, PCs, etc.
- 2 The IPTV input allows the reception of MPTS from an IPTV operator.

# ARANTIA.DS



**PROMOTE YOUR BUSINESS**  
 IN A SIMPLE, INTUITIVE AND PROFITABLE WAY  
**THROUGH ATTRACTIVE MULTIMEDIA CONTENT**  
 THANKS TO ARANTIA DS

## DIGITAL SIGNAGE SOLUTION FOR YOUR BUSINESS

Create, manage and deliver attractive, flexible and tailor made information to different Digital Signage Players through the system management tool.

Main Features:

- Web based Management Tool.
- Scalable solution.
- Cloud based & in-house Server architecture.
- Users and groups management.
- DS Players Management.
- Media library Management.
- Secured Content Download.
- Templates and Content Designer.
- Content Carousels.
- Smart Content Scheduling.
- Displays Switch ON / OFF Scheduling.
- Room Booking Application.
- Several player options: External and Built-in/ embedded in the DS Display panel.

| Ref.                        | Description                                 |   |
|-----------------------------|---|---|
| <b>DIGITAL SIGNAGE (DS)</b> |   |   |
| 831810                      | DS Chronos (SW+HARDWARE)                    | 1 |
| 831812                      | Nemesis DS Player (SW+HARDWARE)             | 1 |
| 831806                      | LG WebOS DS Player License                  | 1 |
| 831805                      | Arantia DS Server up to 150 Users           | 1 |
| 831807                      | DS Server up to 25 Users                    | 1 |
| 831811                      | DS SYNC Annual License                      | 1 |
| 831801                      | DS Totem with Vertical Display              | 1 |
| ★ 831802                    | Totem with Vertical Touch Display DS Player | 1 |
| 830209                      | Power Supply Unit for STB (EU plug)         | 1 |
| 830208                      | Power Supply Unit for STB (UK plug)         | 1 |
| 830213                      | STB TVI Extension - Samsung                 | 1 |
| 830215                      | STB TVI Extension - LG                      | 1 |
| <b>SERVICES</b>             |   |   |
| 831901                      | 1 Day Project Management                    | 1 |
| 831902                      | 1 Hour Remote Technical Support             | 1 |
| 831903                      | 1 Day On-site Technical Support             | 1 |
| 831904                      | 1 Day On-site Training                      | 1 |
| 831906                      | 1 Hour Specific Software Development        | 1 |
| 831905                      | Installation Services                       | - |

## DS NEMESIS STB



### THE NATURAL EVOLUTION OF STB's

Nemesis STB is the natural evolution of Chronos as a Digital Signage Player for Arantia DS.

- With the same shape as the Chronos STB, it is a strong and reliable STB with low power consumption and better performance.
- It supports vertical and horizontal orientation, which is very useful for certain types of contents.
- It includes expandable storage via microSD.



▲ Player DS Chronos



▲ Arantia DS license for screens/panels that do not require external STB's.



# ARANTIA.DS



## DS TOTEM

ArantaDS Totem provides a new powerful tool for direct communication with your audience, fully integrated in the establishment environment at any location thanks to its innovative and customized design.

- It allows to display different types of digital information (information on events, addresses, advertisement and promotion) at one signalling point.
- It offers the possibility of customization, emphasizing the company's corporate image.
- It is made up of a light extruded aluminium chassis with a slim and sophisticated design.
- It has a IPS FHD 55" screen with integrated audio and Smart Energy Saving, specially conceived for Digital Signage, with a 24/7 operation mode and electronic protection against external agents as dust and humidity.
- It offers an optimal view of the displayed contents thanks to the frontal extra clear laminated glass.
- Totem with the touch panel/screen option enabled to support interactive content.

### Arantia DS: Cloud based & in-house Server based operation modes

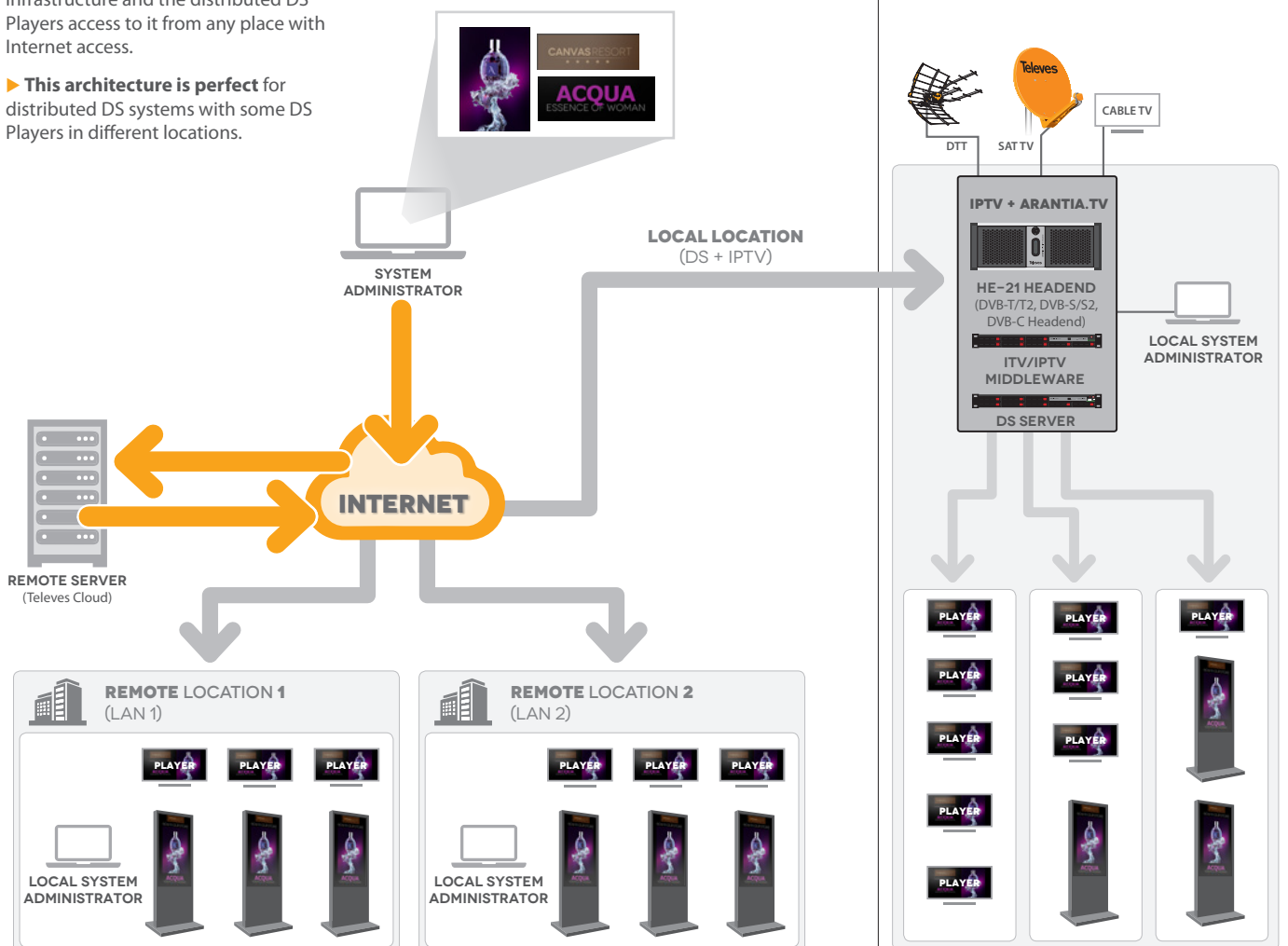
Arantia DS offers two operation modes through a Cloud based or an in-house Server based architecture:

#### CLOUD BASED ARANTIA DS:

The core DS management application is hosted inside Televes Cloud infrastructure and the distributed DS Players access to it from any place with Internet access.

- ▶ **This architecture is perfect** for distributed DS systems with some DS Players in different locations.

**IN-HOUSE SERVER BASED ARANTIA DS:**  
The core DS management application and the DS Players are located in the same local area network.



- ▶ **This architecture is perfect** for DS systems where the number of DS Players located in the same local network is high.



## TWO MODULES IN ONE

CONTENT IP STREAMER OR IP/AV TO RF MODULATOR



T.OX ENCODER TWIN IP REF.563852

- Two operating modes: AV - IP/RF or IP/ AV - RF
- High output signal power without additional amplification
- DVB-T and DVB-C output or configurable IP
- Energy efficient due to its low power consumption



HDTV



REMOTE  
MANAGEMENT



LOW  
CONSUMPTION



H.264  
STANDARD

**PROCESSING HEADENDS**

| Ref.                      | Description  |   |
|---------------------------|--|---|
| <b>T.OX SERIES</b>        |  |   |
| <b>SMATV HEADENDS</b>     |  |   |
| 563101                    | T.OX Transmodulator DVBS/S2-COFDM (47...862MHz)  | 1 |
| 563301                    | T.OX Transmodulator DVBS/S2-COFDM CI (47...862MHz) <sup>(1)</sup>  | 1 |
| 564201                    | T.OX Transmodulator DVBS/S2-COFDM CI (47...862MHz) Multiplexer:<br>3 Transponders(2Sat) :1Ch or 3 Transponders(1Sat+LoopThru): 1Ch <sup>(1)</sup>                          | 1 |
| 564301                    | T.OX Twin Transmodulator DVBS/S2-COFDM CI (47...862MHz) Multiplexer:<br>3 Transponders(2Sat) :2Ch or 3 Transponders(1Sat+LoopThru): 2Ch <sup>(1)</sup>                     | 1 |
| 563001                    | T.OX Twin Transmodulator DVBS/S2-QAM (47...862MHz)   | 1 |
| 564501                    | T.OX Hexa Transmodulator DVBS/S2-QAM (47...862MHz)   | 1 |
| 563501                    | T.OX Transmodulator DVBS/S2-QAM CI (47...862MHz) <sup>(1)</sup>  | 1 |
| 564101                    | T.OX Transmodulator DVBS/S2-QAM CI (47...862MHz) Multiplexer:<br>3 Transponders(2Sat) :1Ch or 3 Transponders(1Sat+LoopThru):1Ch <sup>(1)</sup>                             | 1 |
| 564401                    | T.OX Twin Transmodulator DVBS/S2-QAM CI (47...862MHz) Multiplexer:<br>3 Transponders(2Sat) :2Ch or 3 Transponders(1Sat+LoopThru): 2Ch <sup>(1)</sup>                       | 1 |
| 553701                    | T.OX Twin Transmodulator QPSK-PAL CI Stereo (VSB 47...862MHz) <sup>(1)</sup>   | 1 |
| 553702                    | T.OX Twin Transmodulator QPSK-PAL CI Stereo (VSB 47...862MHz)<br>Pro CAM compatible. Simultaneous decryption of 2 services <sup>(1) (2)</sup>                              | 1 |
| <b>MATV HEADENDS</b>      |  |   |
| 566001                    | T.OX Encoder/Modulator Single 1i: HDMI / Component(YPbPr) / CVBS -<br>1Mux: COFDM/QAM (MPEG2/4) (Standalone support + PSU 18V included)                                    | 1 |
| 566011                    | T.OX Encoder/Modulator Twin, 2i: CVBS - 1Mux: COFDM/QAM (MPEG2)<br>(Standalone Support + PSU18V included)  | 1 |
| 563822                    | T.OX Encoder/Modulator Quad, 4i A/V: CVBS - 1Mux: COFDM/QAM (MPEG2/4)  | 1 |
| 563832                    | T.OX Encoder/Modulator Twin, 2i: HDMI / Component (YPbPr) - 1Mux: COFDM/QAM (MPEG2/4)  | 1 |
| 563833                    | T.OX Encoder/Modulator Twin, 2i: HDMI / Component (YPbPr) - 1Mux: ISDB-Tb/DVB-T (MPEG2/4)  | 1 |
| 563852                    | T.OX Encoder/Modulator IP Twin (MPEG2/4), 2 Modes:<br>2i: HDMI / Component(YPbPr) / CVBS - 1Mux: IP/COFDM/QAM<br>2i: HDMI / Component(YPbPr) / CVBS / IP - 1Mux: COFDM/QAM | 1 |
| 565101                    | T.OX Twin Transmodulator DVBT/T2-COFDM CI (47...862MHz)<br>Multiplexer: 2 Channels (DVB-T/T2): 2 Channels (DVB-T) <sup>(1)</sup>   | 1 |
| 565201                    | T.OX Twin Transmodulator DVBT/T2-QAM CI (47...862MHz)<br>Multiplexer: 2 Channels (DVB-T/T2): 2 Channels (DVB-T) <sup>(1)</sup>   | 1 |
| 564901                    | T.OX Twin Processor Analogue/Digital Channel (47...862MHz)   | 1 |
| 5806                      | T.OX Twin Modulator Analogue A/V-PAL Stereo (VSB 47...862MHz)  | 1 |
| ★ 580610                  | T.OX Twin Modulator Analogue A/V-PAL Mono (VSB 47...862MHz)  | 1 |
| <b>POWER SUPPLY UNITS</b> |  |   |
| 562802                    | Power Supply Unit 38.4W 24V-1.6A (T.OX standalone mounting)  | 1 |
| 562910                    | T.OX Switch-mode Power Supply Unit 60W 24V-2.5A  | 1 |
| 5629                      | T.OX Switch-mode Power Supply Unit 120W 24V-5A   | 1 |
| 563901                    | T.OX Switch-mode Power Supply Unit 120W 24V-5A (110Vac & UL Listed)  | 1 |
| <b>AMPLIFIER</b>          |  |   |
| 5575                      | T.OX Amplifier Push-Pull 47...862MHz G 44dB Vo 120dB $\mu$ V   | 1 |
| <b>COMBINER</b>           |  |   |
| 565002                    | Combiner 7i/1o: 5...1002MHz, 19" Rack Mount, 1RU   | 1 |



▲ 564201

▲ 564301



▲ T.OX Encoders

Generate your own DTT content in High Definition.



▲ 565201

▲ 565101

(1) In case of modules with CI, it is the responsibility of the concerned person to consult Televes and check compatibility of CAM and card with the module.

(2) If CAM and card allow it.



▲ 580610

▲ 564501

▲ 565002



# PROCESSING HEADENDS

| Ref.                                       | Description  |        |
|--|--|--------|
| <b>T.OX SERIES</b>                         |  |        |
| <b>REMOTE CONTROL, PROGRAMMER &amp; SW</b> |  |        |
| 5559                                       | T.OX Headend Management Unit CDC IP  | 1      |
| 555901                                     | T.OX Headend Management Control CDC IP/GSM   | 1      |
| ★ 555911                                   | T.OX Headend Management Control CDC IP/3G  | 1      |
| 7234                                       | Universal Programmer T.OX/T05/AVANT  | 1      |
| 216801                                     | Kit: PC-Module Cable & USB-Serial Adapter Utilities: TSuite (T.OX, T05)  | 1      |
| <b>SUPPORTS &amp; ENCLOSURES</b>           |  |        |
| 567401                                     | Standalone Support (1 T.OX Module)   | 1      |
| 5071                                       | Wall Mount 498mm (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>                                 | 1      |
| 5239                                       | Wall Mount 560mm (1 PSU + 8 T.OX Modules or 12 T12/T05 Modules) <sup>(1)</sup>                                 | 1      |
| 5301                                       | 19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>                         | 1      |
| 567201                                     | Wall Mount 275mm 5RU (1 PSU + 4 T.OX Modules)  | 1      |
| ★ 507203                                   | Lockable Cabinet with Forced Ventilation 498mm (1 PSU + 7 T.OX Modules) <sup>(1)</sup>                         | 1      |
| 5333                                       | 19" Rack Cabinet 15RU. Ventilation, Wheels, Glazed Door  | 1      |
| ★ 507204                                   | Lockable Cabinet with Forced Ventilation 327mm (1 PSU + 4 T.OX Modules)  | 1      |
| <b>ACCESSORIES</b>                         |  |        |
| 5673                                       | T.OX Blank Plate 50mm - 5RU  | 1      |
| 533153                                     | T.OX Panel for Rack 19" 1RU, Up to 2x7 "F" connectors  | 1      |
| 567250                                     | CAM Protection Bar (for Ref. 567201)   | 1      |
| 4061                                       | Terminal Load "F" 750hm with DC Blocked  | 10/200 |
| 4071                                       | DC Blocker "F"   | 10     |
| 4947                                       | Coaxial Atmospheric Surge Arrestor 90V 0...3GHz  | 1/20   |
| 422601                                     | Patch Cable for Powering T.OX from T05 0.4m  | 1/5    |
| <b>WALL MOUNT</b>                          |  |        |
| 585901                                     | Analogue Modulator Quad PAL B/G with channel display (VHF/UHF)<br>Wall mount (Connection accessories included) | 1      |
| <b>MODULATOR + ENCODERS (RACK MOUNT)</b>   |  |        |
| 718201                                     | Chassis with Double Power Supply, 6 Slots for slot-in Encoder/Modulator. 19" Rack Mount, 1RU                   | 1      |
| 718210                                     | Slot-in Encoder/Modulator IP - COFDM (8Mux)  | 1      |
| 718220                                     | Slot-in Encoder/Modulator IP - QAM (16Mux)   | 1      |



▲ Pre-assembled Rack Cabinet (on request)



▲ 585901



▲ 5301



▲ 5071



▲ 555911

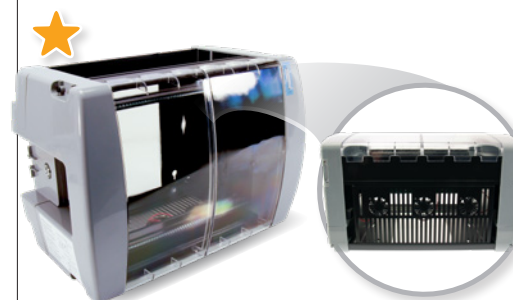
▲ 5559



▲ 567401



▲ 507203 (T.OX units not included)



▲ 507204



▲ 718201

(1) The number of modules indicated is based solely on the available space; but the number of installable modules may be limited by other restrictions as consumption or temperature.

FIBER OPTICS

| Ref.                                     | Description  |        |
|--|--|--------|
| <b>T.OX SERIES</b>                       |  |        |
| <b>TRANSMISSION &amp; RECEPTION</b>      |  |        |
| 233306                                   | T.OX Optical Transmitter SMATV 1310nm "SC/APC" Po 6dBm w/o Return Path   | 1      |
| 233311                                   | T.OX Optical Transmitter SMATV 1310nm "SC/APC" Po 10dBm w/o Return Path  | 1      |
| 234801                                   | T.OX Optical Transmitter CATV 1310nm "SC/APC" Po 10dBm w/o Return Path<br>RF Automatic Adjustment and Temperature Stability                                  | 1      |
| 234305                                   | T.OX Optical Transmitter SMATV 1550nm "SC/APC" Po 5dBm w/o Return Path   | 1      |
| 234806                                   | T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 6dBm w/o Return Path<br>External modulation and RF Automatic Adjustment (up to 30Km). DOCSIS 3.1 compatible | 1      |
| 234811                                   | T.OX Optical Transmitter CATV 1550nm "SC/APC" Po 10dBm w/o Return Path<br>RF Automatic Adjustment and Temperature Stability                                  | 1      |
| 2335                                     | T.OX Optical Receiver SMATV 1200...1600nm "SC/APC" w/o Return Path   | 1      |
| 2336                                     | T.OX Optical Receiver SMATV 1200...1600nm "SC/APC"<br>with Return Path Optical Transmitter 1310nm Po 3dBm  | 1      |
| 234901                                   | T.OX Return Path Optical Receiver (5...300MHz) 1270...1650nm "SC/APC", with AGC  | 1      |
| <b>SPLITTERS</b>                         |  |        |
| 2337                                     | T.OX Optical Splitter 1260...1650nm "SC/APC" 2W 4dB  | 1      |
| 2339                                     | T.OX Optical Splitter 1260...1650nm "SC/APC" 4W 7dB  | 1      |
| 234401                                   | T.OX Optical Splitter 1260...1650nm "SC/APC" 8W 10dB   | 1      |
| 234501                                   | T.OX Optical Splitter 1260...1650nm "SC/APC" 16W 14dB  | 1      |
| 234601                                   | T.OX Optical Splitter 1260...1650nm "SC/APC" 32W 17dB  | 1      |
| <b>POWER SUPPLY UNITS</b>                |  |        |
| 562910                                   | T.OX Switch-mode Power Supply Unit 60W 24V-2.5A  | 1      |
| 5629                                     | T.OX Switch-mode Power Supply Unit 120W 24V-5A   | 1      |
| 563901                                   | T.OX Switch-mode Power Supply Unit 120W 24V-5A (110Vac & UL Listed)  | 1      |
| <b>AMPLIFIERS</b>                        |  |        |
| 234220                                   | T.OX Optical Amplifier 1i/1o: 1550nm "SC/APC" 20dBm (EDFA Technology)  | 1      |
| 234221                                   | T.OX Optical Amplifier / Multiplexer "SC/APC" 19dBm (EDFA Technology)<br>2i: 1310/1490nm - 1550nm, 1o: 1310/1490/1550nm                                      | 1      |
| 234228                                   | T.OX Optical Amplifier / Multiplexer "SC/APC" 20dBm (YEDFA Technology)<br>9i: 8x1310/1490nm - 1x1550nm, 8o: 8x1310/1490/1550nm                               | 1      |
| <b>MULTIPLEXER / DEMULTIPLEXER (WDM)</b> |  |        |
| 234701                                   | T.OX Optical Multiplexer / Demultiplexer 1i/2o "SC/APC":<br>GPON+RF: Data (1310/1490nm) - TV (1550nm)  | 1      |
| 234702                                   | T.OX Optical Multiplexer / Demultiplexer 1i/2o "SC/APC":<br>RFoG: Uplink (1610nm) - Downlink (1550nm)  | 1      |
| <b>SUPPORTS &amp; ENCLOSURES</b>         |  |        |
| 5071                                     | Wall Mount 498mm (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>   | 1      |
| 5239                                     | Wall Mount 560mm (1 PSU + 8 T.OX Modules or 12 T12/T05 Modules) <sup>(1)</sup>   | 1      |
| 5301                                     | 19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>   | 1      |
| ★ 507203                                 | Lockable Cabinet with Forced Ventilation 498mm (1 PSU + 7 T.OX Modules) <sup>(1)</sup>   | 1      |
| 5333                                     | 19" Rack Cabinet 15RU. Ventilation, Wheels, Glazed Door  | 1      |
| ★ 507204                                 | Lockable Cabinet with Forced Ventilation 327mm (1 PSU + 4 T.OX Modules)  | 1      |
| <b>ACCESSORIES</b>                       |  |        |
| 5673                                     | T.OX Blank Plate 50mm - 5RU  | 1      |
| 4061                                     | Terminal Load "F" 750hm with DC Blocked  | 10/200 |
| 4071                                     | DC Blocker "F"   | 10     |
| 4947                                     | Coaxial Atmospheric Surge Arrestor 90V 0...3GHz  | 1/20   |



▲ 234806 ▲ 234801/234811



▲ 234401 ▲ 234501 ▲ 234601



▲ 234221 ▲ 234228



▲ 234701 ▲ 234702



▼ 5629



▼ 562910

(1) The number of modules indicated is based solely on the available space; but the number of installable modules may be limited by other restrictions as consumption or temperature.

# FIBER OPTICS

| Ref.                                       | Description   |    |
|--|---|----|
| <b>19" RACK FORMAT</b>                     |   |    |
| <b>TRANSMISSION &amp; RECEPTION</b>        |   |    |
| ★ 769902                                   | Optical Transmitter SMATV 1310nm "SC/APC" Po 6dBm w/o Return Path, 19" Rack Mount, 1RU  | 1  |
| ★ 769903                                   | Optical Transmitter SMATV 1310nm "SC/APC" Po 10dBm w/o Return Path, 19" Rack Mount, 1RU   | 1  |
| <b>STANDALONE FORMAT</b>                   |   |    |
| <b>TRANSMISSION &amp; RECEPTION</b>        |   |    |
| ★ 238201                                   | FiberKom Optical Transmitter SMATV 1310nm "SC/APC" Po 3dBm w/o Return Path  | 1  |
| <b>F.O. DISTRIBUTION (OPTICAL NODES)</b>   |   |    |
| <b>OPTICAL NODES (OUTDOOR)</b>             |   |    |
| 231020                                     | Outdoor Optical Node 1200...1600nm "SC/APC" Return Path 1610nm with Amplifier 2o: 87...1006MHz, OLC Technology (Local Powering) <sup>(1)</sup>                                    | 10 |
| 231220                                     | Outdoor Optical Receiver 1200...1600nm "SC/APC" without Return Path with Amplifier 2o: 40...1006MHz, OLC Technology (Local Powering) <sup>(1)</sup>                               | 1  |
| 231201                                     | Outdoor Optical Receiver 1200...1600nm "SC/APC" without Return Path with Amplifier 1o: 87...862/950...2150MHz (Local Powering)  | 1  |
| <b>OPTICAL MINI-NODES: FIBERKOM SERIES</b> |   |    |
| 238001                                     | FiberKom Optical Mini-node 1200...1600nm "SC/APC" Return Path 1310nm (2 Fibers) with Amplifier 87...1218MHz DOCSIS 3.1 Compatible. OLC Technology (Local Powering) <sup>(1)</sup> | 1  |
| 238004                                     | FiberKom Optical Mini-node 1550nm "SC/APC" Return Path 1610nm (1 Fiber) with Amplifier 87...1218MHz DOCSIS 3.1 Compatible. OLC Technology (Remote Powering) <sup>(1)</sup>        | 1  |
| 238005                                     | FiberKom Optical Mini-node 1550nm "SC/APC" Return Path 1610nm (1 Fiber) with Amplifier 87...1218MHz DOCSIS 3.1 Compatible. OLC Technology (Local Powering) <sup>(1)</sup>         | 1  |
| 238101                                     | FiberKom Optical Mini-receiver 1200...1600nm "SC/APC" without Return Path (1 Fiber) with Amplifier 47...1006MHz, OLC Technology (Remote Powering) <sup>(1)</sup>                  | 1  |
| <b>OPTICAL MICRO-NODES</b>                 |   |    |
| 231111                                     | Domestic Optical Receiver 1550nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology <sup>(1)</sup>  | 1  |
| 231110                                     | Domestic Optical Receiver 1200...1600nm "SC/APC" with Amplifier 47...1006MHz, OLC Technology <sup>(1)</sup>   | 1  |
| 2311                                       | Domestic Optical Receiver 1200...1600nm "SC/APC" with Amplifier 87...862/950...2400MHz with Automatic Adjustment  | 1  |



▲ 769902



▲ 769903



▲ 238201



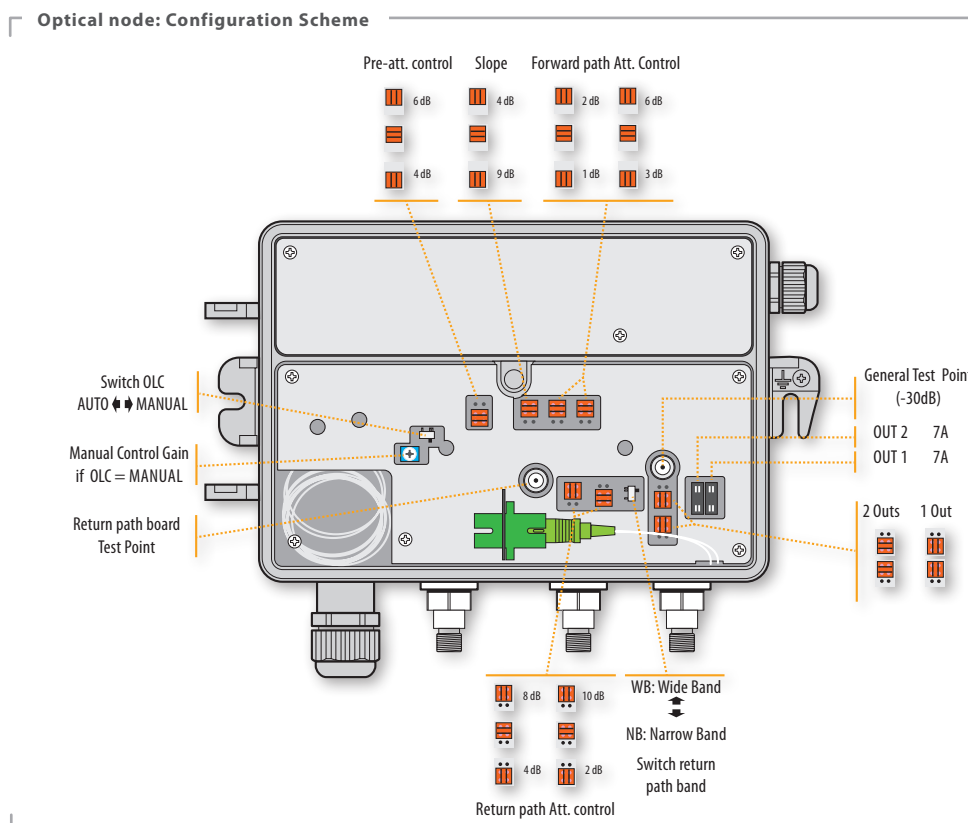
▲ Mini-Node: FiberKom Series (185 x 80 x 35 mm)



▲ Micro-Node (145 x 60 x 35 mm)



▲ Outdoor Node (232 x 140 x 90 mm)



(1) OLC Technology: Optical Level Control.



**FIBER OPTICS**

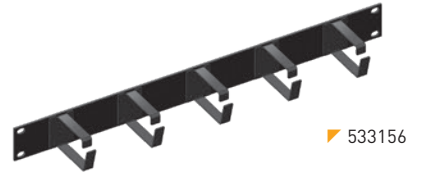
| Ref.                           | Description  |   |
|--------------------------------|--|---|
| <b>F.O. DISTRIBUTION</b>       |  |   |
| <b>RACKS AND ACCESSORIES</b>   |  |   |
| 533106                         | 19" Rack Cabinet 6RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount  | 1 |
| 533108                         | 19" Rack Cabinet 8RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount  | 1 |
| 533113                         | 19" Rack Cabinet 13RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount | 1 |
| 533117                         | 19" Rack Cabinet 17RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount | 1 |
| 533124                         | 19" Rack Cabinet 24RU (+2RU extra). Glazed Door and Accesible from the side. Ground Mount      | 1 |
| 533150                         | Panel for Rack 19" 1RU, Up to 24 "F" connectors  | 1 |
| 533153                         | T.OX Panel for Rack 19" 1RU, Up to 2x7 "F" connectors  | 1 |
| 533151                         | Panel for Rack 19" 1RU, Up to 24 "RJ45" connectors   | 1 |
| 533154                         | Cable Management for Rack 19" 1RU, 5 Holes   | 1 |
| 533156                         | Cable Management for Rack 19" 1RU, 5 Rings   | 1 |
| 533152                         | Splice Box for Rack 19" 1RU, Up to 24 "SC" connectors (Depth 230mm)                            | 1 |
| 533155                         | Tray for Rack 19" 2RU (Depth 265mm)  | 1 |
| 533161                         | Blank Panel for Rack 19" 1RU   | 1 |
| 533163                         | Blank Panel for Rack 19" 3RU   | 1 |
| 533165                         | Blank Panel for Rack 19" 5RU   | 1 |
| 533170                         | Screw Kit for Rack 19": Screw with washer and nut (50 units)                                   | 1 |
| <b>ENCLOSURES</b>              |  |   |
| 233002                         | Main Terminal Enclosure for F.O., Indoor (Up to 48 "SC/APC" connectors)                        | 1 |
| 233003                         | Stackable Main Enclosure for F.O., Indoor (Up to 48 "SC/APC" connectors)                       | 1 |
| 231302                         | Splitting Terminal Enclosure for F.O., Indoor (Up to 24 fibers)                                | 1 |
| 231301                         | Splitting Terminal Enclosure for F.O., Indoor (Up to 16 fibers)                                | 1 |
| 231310                         | Splitting Terminal Enclosure for F.O., Indoor (Up to 8 fibers)                                 | 1 |
| 546701                         | Data/Coaxial/Fiber Network Terminal Enclosure  | 1 |
| <b>USER ACCESS POINT (UAP)</b> |  |   |
| 231502                         | F.O. Patch/Splitting Box 2 to 4 Outs <sup>(1)</sup>  | 1 |
| 231520                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 15m on one end <sup>(1) (2)</sup>       | 1 |
| 231521                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 25m on one end <sup>(1) (2)</sup>       | 1 |
| 231522                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 40m on one end <sup>(1) (2)</sup>       | 1 |
| 231523                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 55m on one end <sup>(1) (2)</sup>       | 1 |
| 231524                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 70m on one end <sup>(1) (2)</sup>       | 1 |
| 231525                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 85m on one end <sup>(1) (2)</sup>       | 1 |
| 231526                         | F.O. Patch Box 2 to 4 Outs: 2 Pre-terminated Fibers of 100m on one end <sup>(1) (2)</sup>      | 1 |
| 231530                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 15m on one end <sup>(1) (2)</sup>            | 1 |
| 231531                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 25m on one end <sup>(1) (2)</sup>            | 1 |
| 231532                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 40m on one end <sup>(1) (2)</sup>            | 1 |
| 231533                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 55m on one end <sup>(1) (2)</sup>            | 1 |
| 231534                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 70m on one end <sup>(1) (2)</sup>            | 1 |
| 231535                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 85m on one end <sup>(1) (2)</sup>            | 1 |
| 231536                         | F.O. Patch Box 4 Outs: 4 Pre-terminated Fibers of 100m on one end <sup>(1) (2)</sup>           | 1 |



▲ 533113  
(600 x 690 x 400mm)



▲ 533152  
(480 x 43 x 230mm)



▲ 533156



▲ 233003  
(444 x 180 x 125 mm)



▲ 233002  
(454 x 358 x 95 mm)

▲ 231302  
(206 x 300 x 110 mm)



▲ 231301  
(153 x 264 x 67 mm)



▲ 231310  
(203 x 106 x 30 mm)



▲ 23152x / 23153x

**Types of Rack Cabinets**

| Ref.   | Dimensions (mm)  |
|--------|------------------|
| 533106 | 600 x 380 x 400  |
| 533108 | 600 x 460 x 400  |
| 533113 | 600 x 690 x 400  |
| 533117 | 600 x 870 x 400  |
| 533124 | 600 x 1200 x 600 |

(1) "SC/APC" (Female - Female) Adapters and dispenser box included.

(2) ITU-T G657A2 single-mode fibers.

# FIBER OPTICS

| Ref.   | Description  |  |         |
|--|--|--|---------|
| <b>F.O. CABLES (ITU-T G657A2)</b>                        |  |  |         |
| <b>MULTI-FIBER CABLES (FIBER'S TIGHT BUFFER Ø 250µm)</b> |  |  |         |
| 231612   | Multi-fiber Cable 24 Single-mode Fibers LSFH   |  | By m    |
| 231712   | Multi-fiber Cable 48 Single-mode Fibers LSFH   |  | By m    |
| <b>MULTI-FIBER CABLES (FIBER'S TIGHT BUFFER Ø 900µm)</b> |  |  |         |
| 231802   | Multi-fiber Cable 12 Single-mode Fibers LSFH   |  | By m    |
| 231603   | Multi-fiber Cable 24 Single-mode Fibers LSFH   |  | By m    |
| 231702   | Multi-fiber Cable 48 Single-mode Fibers LSFH   |  | By m    |
| <b>4 FIBER CABLES (FIBER'S TIGHT BUFFER Ø 250µm)</b>     |  |  |         |
| 231911   | 4 Fiber Cable Single-mode Indoor LSFH  |  | 300     |
| <b>2 FIBER CABLES (FIBER'S TIGHT BUFFER Ø 900µm)</b>     |  |  |         |
| 231901   | 2 Fiber Cable Single-mode Indoor LSFH Dca  |  | 300     |
| 231902   | 2 Fiber Cable Single-mode Indoor LSFH Dca  |  | 750     |
| 232001   | 2 Fiber Cable Single-mode Outdoor LSFH Dca   |  | 200     |
| 232002   | 2 Fiber Cable Single-mode Outdoor LSFH Dca   |  | 500     |
| <b>PRE-TERMINATED PATCH CORDS (Ø 3mm)</b>                |  |  |         |
| 232622   | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC" - "SC/PC" 0.2m                                  |  | 5       |
| 232621   | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 2m (Bag B4)                                     |  | 10      |
| 232640   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 10m                                      |  | 1       |
| 232641   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 15m                                      |  | 1       |
| 232642   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 20m                                      |  | 1       |
| 232643   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 25m                                      |  | 1       |
| 232644   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 30m                                      |  | 1       |
| 232645   | F.O. Duplex Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 40m                                      |  | 1       |
| <b>ACCESSORIES</b>                                       |  |  |         |
| 2327   | Splicing Protection Sleeve 60mm for FO fusion  |  | 200     |
| 232701   | Splicing Protection Sleeve 43mm for FO fusion  |  | 200     |
| 2328   | Fiber Mechanical Splices   |  | 10      |
| 2329   | Connectors of Fiber Optics "SC/APC" (with mounting tool)   |  | 10      |
| 232602   | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 2m (ITU-T G657A2, 900µm) Convertible to Pigtail |  | 25      |
| 233203   | Adapter "SC/APC" Female - "SC/APC" Female, with Auto-blocking Cap  |  | 25      |
| ★ 233210   | Twin Adapter "SC/APC" Female - "SC/APC" Female, with Auto-blocking Cap                                   |  | 20/1000 |
| 212001   | Coaxial Cable / Optical Fiber Dispenser, Small model (plastic drums) <sup>(1)</sup>                      |  | 1       |
| 212011   | Coaxial Cable / Optical Fiber Dispenser, Large model (plastic drums) <sup>(2)</sup>                      |  | 1       |

"By m" = Cut to length

## F.O. CABLES

Fiber's tight buffer Ø 250µm



▲ 48 Fibers (231712)



▲ 24 Fibers (231612)



▲ 4 Fibers - Indoor (231911)



## Fiber's tight buffer Ø 900µm



▲ 48 Fibers (231702)



▲ 24 Fibers (231603)



▲ 12 Fibers (231802)



▲ 2 Fibers - Indoor (231901 / 231902)



▲ 2 Fibers - Outdoor (232001 / 232002)



▲ 232602

(1) For 2 fiber cable in 200 or 300m drum.

(2) For 2 fiber cable in 500 or 750m drum.



▲ 2120xx (Cable drum not included)



▲ 23264x (Duplex patch cord)



▲ 232621 (Patch cord)



▲ 233210



▲ 2328



▲ 233203

**FIBER OPTICS (OPTICAL LNB)**

| Ref.  | Description  |   |    |
|---|--|---|----|
| <b>F.O. DISTRIBUTION (OPTICAL LNB)</b>                        |  |   |    |
| <b>OPTICAL LNBs</b>   |  |   |    |
| 2353  | Offset Optical LNB 1310nm "FC/PC" G 72dB Po 7dBm (Up to 32 converters), Grey   | G | 1  |
| 2363  | P.F. Optical LNB 1310nm "FC/PC" G 72dB Po 7dBm Grey  | G | 1  |
| <b>OPTICAL FIBER / RF CONVERTERS: SATELLITE + TERRESTRIAL</b> |  |   |    |
| 236801  | RF/Optical Converter ODU32 1310nm "F"- "N"- "FC/PC": DAB/UHF-SAT + Offset LNB + AC/DC Adapter + Interconnection Accessories                  |   | 1  |
| 236810  | RF/Optical Converter ODU32 1550nm "F"- "N"- "FC/PC": DAB/UHF-SAT + Offset LNB + AC/DC Adapter + Interconnection Accessories                  |   | 1  |
| 236903  | Optical/RF Converter "FC/PC"- "F" Quad FM/DAB/UHF-SAT  |   | 1  |
| 237003  | Optical/RF Converter "FC/PC"- "F" Quattro FM/DAB/UHF-SAT   |   | 1  |
| <b>FTTH TRANSMISSION &amp; RECEPTION</b>                      |  |   |    |
| 237301  | Optical Transmitter / Multiplexer "SC/APC". 2i: 1310/1490nm(Sat) - RF(Terr.), 1o: 1310/1490/1550nm(Sat/Terr.)                                |   | 1  |
| 237311  | Optical Receiver / Demultiplexer "SC/APC". 1i: 1310/1490/1550nm(Sat/Terr.), 2o: 1310/1490nm(Sat) - RF(Terr.)                                 |   | 1  |
| <b>FIBER4SAT SOLUTION: 4 SATELLITES + TERRESTRIAL</b>         |  |   |    |
| ★ 237901  | Optical Transmitter / Multiplexer DWDM "SC/APC" 5i: 4x 1100...1600nm(Sat) - RF(Terr.), 1o: 1550nm(4xSat+Terr), Po 5dBm                       |   | 1  |
| ★ 237911  | Optical Receiver / Demultiplexer DWDM "SC/APC" 1i: 1550nm(4xSat+Terr.), 4o: 4x RF(4xSat+Terr.)   |   | 10 |
| ★ 234755  | DWDM Component, Optical Multiplexer / Demultiplexer 1i/4o "FC/PC": 1550,12nm (Ch34) / 1150,92nm (Ch33) / 1551,72nm (Ch32) / 1552,52nm (Ch31) |   | 1  |
| ★ 237902  | Optical Transmitter / Multiplexer CWDM "SC/APC" 5i: 4x 1100...1600nm(Sat) - RF(Terr.), 1o: 1550nm(4xSat+Terr), Po 5dBm                       |   | 1  |
| ★ 234756  | CWDM Component, Optical Multiplexer / Demultiplexer 1i/4o "FC/PC": 1510/1530/1550/1570nm   |   | 1  |
| <b>SPLITTERS</b>  |  |   |    |
| 235701  | Optical Splitter 1310/1550nm "FC/PC" 2W 4dB  |   | 1  |
| 235801  | Optical Splitter 1310/1550nm "FC/PC" 3W 5.5dB  |   | 1  |
| 235901  | Optical Splitter 1310/1550nm "FC/PC" 4W 7dB  |   | 1  |
| 236001  | Optical Splitter 1310/1550nm "FC/PC" 8W 10.1dB   |   | 1  |
| <b>ATTENUATORS</b>  |  |   |    |
| 2364  | Optical Attenuator 1310/1550nm "FC/PC" 5dB   |   | 1  |
| 2365  | Optical Attenuator 1310/1550nm "FC/PC" 10dB  |   | 1  |
| 2366  | Optical Attenuator 1310/1550nm "FC/PC" 15dB  |   | 1  |
| <b>PRE-TERMINATED PATCH CORDS</b>                             |  |   |    |
| 236110  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 1m   |   | 1  |
| 2361  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 3m   |   | 1  |
| 236101  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 5m   |   | 1  |
| 236102  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 10m  |   | 1  |
| 236103  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 20m  |   | 1  |
| 236104  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 30m  |   | 1  |
| 236105  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 40m  |   | 1  |
| 236106  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 50m  |   | 1  |
| 236107  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 75m  |   | 1  |
| 236108  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 100m   |   | 1  |
| 236109  | F.O. Patch Cord Single-mode LSFH Pre-terminated "FC/PC" 200m   |   | 1  |
| <b>ACCESSORIES</b>  |  |   |    |
| 237050  | Power Supply Unit 20V-1.2A (for Ref. 237003)   |   | 1  |
| 2354  | Fiber Optics Connector for 2 "FC"- "FC" Pre-terminated Patch Cords Interconnection   |   | 5  |
| 2356  | Fiber Optics Adapter for a "FC"- "SC" Connector Change, of 2 Pre-terminated Patch Cords  |   | 5  |

FIBER4SAT

**A FULL FOUR SATELLITES IN A SET-TOP BOX**



Transmitter (2379xx)



Receiver (237911)

Distribution system of four satellites and DTT in a single optical fiber. Optical transmission using DWDM or CWDM (depending on the ref).



237003



237301



237311



236810



# h30FLEX

CUSTOMIZABLE MULTI STANDARD **HANDHELD METER**



LICENCED  
CUSTOMIZABLE  
OPTIONS



HD CHANNELS  
DISPLAY



SPECTRUM  
ANALYSER



MADE  
IN EUROPE



dCSS (SCR)  
COMPATIBLE

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**MEASURING EQUIPMENT**

| Ref.                                     | Description  |    |
|--|--|----|
| <b>FIELD STRENGTH METERS</b>             |  |    |
| <b>H30FLEX</b>                           |  |    |
| 593301                                   | H30FLEX: DVB-S/S2 + DVB-T  | 1  |
| 593302                                   | H30FLEX: DVB-S/S2 + DVB-T/T2   | 1  |
| 593303                                   | H30FLEX: DVB-S/S2 + DVB-C  | 1  |
| 593304                                   | H30FLEX: DVB-S/S2 + DVB-T/T2 + DVB-C   | 1  |
| <b>H30FLEX OPTIONS</b>                   |  |    |
| 593231                                   | Option DVB-T   | 1  |
| 593232                                   | Option DVB-T2 (DVB-T required)   | 1  |
| 593233                                   | Option DVB-C   | 1  |
| 593234                                   | Option dCSS  | 1  |
| 593235                                   | Option Extended Terrestrial Input to 120dBµV                                     | 1  |
| ★ 593236                                 | Option Analogue A/V Display (Format Adapters and Protective Sleeve included)     | 1  |
| 5909                                     | Calibration of Spectrum Analyzer (Certificate Included) <sup>(1)</sup>           | 1  |
| <b>H30 (DVB-C)</b>                       |  |    |
| 593102                                   | H30: DVB-C + Remote Control (Ethernet) + IP Speed Test                           | 1  |
| 593104                                   | H30D3: DVB-C + Remote Control (Ethernet) + IP Speed Test + DOCSIS 3.0            | 1  |
| <b>H30/H30D3 OPTIONS</b>                 |  |    |
| 593210                                   | Option MPEG Service Information  | 1  |
| 5909                                     | Calibration of Spectrum Analyzer (Certificate Included) <sup>(1)</sup>           | 1  |
| <b>H30FLEX / H30 / H30D3 ACCESSORIES</b> |  |    |
| 593201                                   | Protective Sleeve (Included by Default in H30 and H30D3 models)                  | 1  |
| ★ 593239                                 | Carrying Case  | 1  |
| <b>H45 COMPACT</b>                       |  |    |
| 599020                                   | H45 COMPACT: Full HD + CI  | 1  |
| 599021                                   | H45 COMPACT: Full HD + CI + DVB-T2   | 1  |
| 599022                                   | H45 COMPACT: Full HD + CI + F.O.   | 1  |
| 599023                                   | H45 COMPACT: Full HD + CI + Selective F.O. (CWDM Filter)                         | 1  |
| 599024                                   | H45 COMPACT: Full HD + CI + DVB-T2 + F.O.  | 1  |
| 599025                                   | H45 COMPACT: Full HD + CI + DVB-T2 + Selective F.O. (CWDM Filter)                | 1  |
| <b>H45 COMPACT OPTIONS</b>               |  |    |
| 598901                                   | Option DVB-T2 <sup>(1)</sup>   | 1  |
| 5999                                     | Option Fiber Optic Interface <sup>(1)</sup>                                      | 1  |
| 599902                                   | Option Selective Fiber Optic Interface (CWDM Filter) <sup>(1)</sup>              | 1  |
| 5909                                     | Calibration of Spectrum Analyzer (Certificate Included) <sup>(1)</sup>           | 1  |
| <b>H45 ACCESSORIES</b>                   |  |    |
| 5995                                     | Weatherproof Bag   | 1  |
| 405701                                   | Twin Adaptor "EasyF" Male - "F" Female   | 10 |
| <b>MOSAIQ6</b>                           |  |    |
| 596101                                   | MOSAIQ6: DVB-T/T2 + DVB-S/S2 + DVB-C, CI, F.O.                                   | 1  |
| 596111                                   | MOSAIQ6: DVB-T/T2 + DVB-S/S2 + DVB-C, CI, Selective F.O. Interface (CWDM Filter) | 1  |
| <b>MOSAIQ6 OPTIONS</b>                   |  |    |
| 596201                                   | Option GPS Drive Test  | 1  |
| 596202                                   | Option WiFi 5GHz   | 1  |
| 596203                                   | Option Analogue Measures   | 1  |
| 596204                                   | Option DAB/DAB+  | 1  |
| 596205                                   | Option 4K - Ultra High Definition (UHD)  | 1  |
| 5909                                     | Calibration of Spectrum Analyzer (Certificate Included) <sup>(1)</sup>           | 1  |
| <b>MOSAIQ6 ACCESSORIES</b>               |  |    |
| ★ 596210                                 | Field Replaceable Battery  | 1  |
| ★ 596211                                 | Carrying Bag   | 1  |
| ★ 596212                                 | Adapter "N" Male - "F" Female  | 1  |



▶ H45 Compact



▶ 596210

**H30FLEX**



**ALL THE FUNCTIONS YOU NEED IN YOUR HAND**

A pocket size meter which allows you to customize upgrade choice with downloadable software.

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DOCSIS 3.0

▶ H30D3

▶ H30

▶ 593239

**MOSAIQ6**

Portable meter with high performance and high accuracy for professional installers.



**THE POWER OF USER EXPERIENCE**

**6 SCREENS IN 1**

Thanks to its configurable interface, you choose which widgets (up to 6) you want to simultaneously display in the 8" high resolution screen. Check the installation status at a glance.

**A TRUE TOUCH SCREEN**

This new interface has been designed and also programmed to take full advantage of a touch screen with touch gestures (tap, double tap, long press, drag, spread or pinch). Only in this way is it possible to operate so easily a meter with so many performances.

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[en.televés.com/mosaiq6](http://en.televés.com/mosaiq6)



▶ 596211

(1) Upgrades to be done in Factory.



# MEASURING EQUIPMENT

| Ref.                     | Description  |     |
|--------------------------|--|-----|
| <b>FIBER OPTIC TOOLS</b> |  |     |
| <b>KITS</b>              |  |     |
| 232103                   | F.O Kit: Arc Fusion Splicer + Stripper + Cleaver + Accessories for fusioning Connectors <sup>(1)</sup>                 | 1   |
| 2341                     | F.O Kit: Connector & Mechanical Splicer + Stripper (Ref. 2324) + Cleaver (Ref. 232301) + Cleaning Tools <sup>(2)</sup> | 1   |
| <b>ACCESSORIES</b>       |  |     |
| 2327                     | Splicing Protection Sleeve 60mm for FO fusion  | 200 |
| 232701                   | Splicing Protection Sleeve 43mm for FO fusion  | 200 |
| 2322                     | Fiber Mechanical Splicer   | 1   |
| 2328                     | Fiber Mechanical Splices   | 10  |
| 232301                   | Cleaver of Fiber Optics  | 1   |
| 232310                   | Kevlar Scissors for Optical Fibers   | 1   |
| 2325                     | Stripper for Multi-fiber Cables  | 1   |
| 2324                     | Precision Stripper for Optical Fibers  | 1   |
| 2329                     | Connectors of Fiber Optics "SC/APC" (with mounting tool)   | 10  |
| 232910                   | Cleaner for Fiber Optic Connectors   | 1   |
| 232710                   | F.O. Cleaning Kit: 50 isopropyl alcohol Wipes + 25 Sticks  | 1   |
| <b>SIGNAL GENERATORS</b> |  |     |
| 2340                     | OPS3L Triple Light Source (1310, 1490 & 1550nm)  | 1   |
| 4008                     | SAT Simulator 950...2150MHz  | 1   |
| 593001                   | SAT Simulator and Noise Generator 5...3000MHz  | 1   |
| 7301                     | SAT Finder 950...2050MHz   | 1   |



▲ 2341



▲ 2322



▲ 232301



▲ 593001



▲ 4008



▲ 2340



▲ 2325



▲ 2329



▲ 232910



▲ 232103

(1) Also includes: Spare set of electrodes, tweezers and carrying case.

(2) Also includes: ref. 2328 (5 units), ref.2329 (10 units), ref.232910 (1 unit and a replacement reel), 10 isopropyl alcohol wipes, 10 sticks for connectors cleaning & carrying bag.



# TERRESTRIAL ANTENNAS

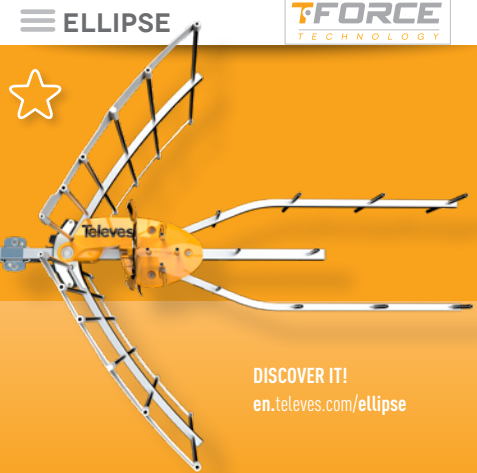
| Ref.   | Description  |        |     |
|--|--|--------|-----|
| <b>INTELLIGENT BOSS ANTENNAS</b>   |  |        |     |
| <b>ELLIPSE SERIES - with TForce Technology</b> <span style="float:right">TFORCE</span>                 |  |        |     |
| ★ 148925   | Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included (Single Packing)                               | LTE700 | 1   |
| ★ 148923   | Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included, UK plug (Single Packing)                      | LTE700 | 1   |
| ★ 148922   | Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included (Multiple Packing)                             | LTE700 | 8   |
| ★ 148905   | Ellipse Terrestrial Antenna UHF (Ch21-60), G 38dBi BOSS ON PSU included (Single Packing)                               | LTE790 | 1   |
| ★ 148902   | Ellipse Terrestrial Antenna UHF (Ch21-60), G 38dBi BOSS ON PSU included (Multiple Packing)                             | LTE790 | 8   |
| <b>DAT SERIES - with TForce Technology</b> <span style="float:right">TFORCE</span>                     |  |        |     |
| 149421   | DAT BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-48) G 8.5/16dBi BOSS OFF, G 36.5/41dBi BOSS ON (Single Packing)   | LTE700 | 1   |
| 149422   | DAT BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-48) G 8.5/16dBi BOSS OFF, G 36.5/41dBi BOSS ON (Multiple Packing) | LTE700 | 5   |
| 149441   | DAT BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-60) G 8.5/16dBi BOSS OFF, G 36.5/44dBi BOSS ON (Single Packing)   | LTE790 | 1   |
| 149442   | DAT BOSS MIX Terrestrial Antenna BIII/UHF (Ch5-12/21-60) G 8.5/16dBi BOSS OFF, G 36.5/44dBi BOSS ON (Multiple Packing) | LTE790 | 5   |
| 149921   | DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON (Single Packing)                          | LTE700 | 1   |
| 149922   | DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON (Multiple Packing)                        | LTE700 | 6   |
| 149941   | DAT BOSS Terrestrial Antenna UHF (Ch21-60) G 17dBi BOSS OFF, G 45dBi BOSS ON (Single Packing)                          | LTE790 | 1/5 |
| 149942   | DAT BOSS Terrestrial Antenna UHF (Ch21-60) G 17dBi BOSS OFF, G 45dBi BOSS ON (Multiple Packing)                        | LTE790 | 6   |
| 149721   | DAT BOSS LR Terrestrial Antenna UHF (Ch21-48) G 19dBi BOSS OFF, G 47dBi BOSS ON (Single Packing)                       | LTE700 | 1   |
| 149740   | DAT BOSS LR Terrestrial Antenna UHF (Ch21-60) G 19dBi BOSS OFF, G 47dBi BOSS ON (Single Packing)                       | LTE790 | 1   |
| <b>NOVA SERIES (SPECIAL ANTENNAS) - with TForce Technology</b> <span style="float:right">TFORCE</span> |  |        |     |
| 144021   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON   | LTE700 | 1   |
| 144022   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON (Kit with accessories)                  | LTE700 | 1   |
| 144011   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-60) G 7dBi BOSS OFF, G 34dBi BOSS ON   | LTE790 | 1   |
| 144012   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-60) G 7dBi BOSS OFF, G 34dBi BOSS ON (Kit with accessories)                  | LTE790 | 1   |
| ★ 144422   | OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF(Ch21-48) G 17/16/25/25dBi BOSS ON (Kit with accessories)              | LTE700 | 1   |
| ★ 144442   | OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF(Ch21-60) G 17/16/25/25dBi BOSS ON (Kit with accessories)              | LTE790 | 1   |
| <b>NOVA SERIES (SPECIAL ANTENNAS)</b> <span style="float:right">LTE790</span>                          |  |        |     |
| 144501   | CAMPNOVA BOSS Terrestrial Antenna FM/BIII/UHF G -2/10/22dBi BOSS ON (Kit with accessories)                             |        | 1   |
| <b>TV MOTION SYSTEM - DTT ON THE MOVE</b> <span style="float:right">LTE790</span>                      |  |        |     |
| 144740   | TRINOVA BOSS Terrestrial Antenna UHF G 25dBi (for Ref. 512501)   |        | 1   |
| 512501   | TRIMOTION Digital Terrestrial Set-top Box (for Ref. 144740)  |        | 1   |



▲ TV MOTION System



▲ CAMPNOVA BOSS



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## INTELLIGENCE TAKEN TO THE LIMIT

A new concept in DTT antenna that eliminates any interference even in limit of the TV band, combining break-through design and the new generation of TForce with SAW filtering in a 100% stainless mechanical frame.



▶ DAT BOSS LR



▶ OMNINOVA BOSS



▶ DINOVA BOSS



Ask us about our KITS with antenna and PSU.

# TERRESTRIAL ANTENNAS

| Ref.   | Description  |          |      |
|--|--|----------|------|
| <b>INTELLIGENT BOSS ANTENNAS</b>                       |  |          |      |
| <b>INDOOR SERIES - with TForce Technology</b>          |  |          |      |
| ★ 130220   | INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 20dBi<br>[USB-microUSB cable included, for 5V powering]   | LTE700   | 1    |
| ★ 130240   | INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-60) G 20dBi<br>[USB-microUSB cable included, for 5V powering]   | LTE790   | 1    |
| <b>Q-BOSS</b>  |  |          |      |
| 561902   | Q-BOSS 782 "EasyF" UHF (Ch21-59) G 15dB Vo 101dBµV   |          | 10   |
| 561901   | Q-BOSS 790 "EasyF" UHF (Ch21-60) G 15dB Vo 101dBµV   |          | 10   |
| <b>INTELLIGENCE ACTIVATION ACCESSORIES (BOSS Tech)</b> |  |          |      |
| 5605   | PicoKom Domestic Amplifier 1i/2o "EasyF": 47...862MHz<br>G 12/20dB Vo 105dBµV AGC + Preamp. Powering 12V-150mA   |          | 1/10 |
| 545720   | Domestic Amplifier 1i/(2o+TV) "IEC": 47...694MHz G 20dB<br>Vs 110dBµV + Output TV Outlet G 12dB + Preamp.Pow. 12V-100mA (Blister T1)   | LTE700   | 8    |
| ★ 545801   | Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/782MHz G 20dB<br>Vo 101dBµV Auto-Adjustment + Output to a TV Outlet G 11dB<br>+ Preamp. Powering 12V-100mA (Blister T1) | AUTO LTE | 8    |
| ★ 545901   | Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/782MHz G 20dB<br>Vo 101dBµV w/USOS + Output to a TV Outlet G 11dB + Preamp. Powering 12V-100mA                          | AUTO LTE | 1    |
| 5795   | PicoKom Domestic Power Supply Unit 1i/2o "EasyF":<br>5...862MHz 24V-130mA  |          | 1/10 |
| 5504   | Domestic Power Supply Unit 1i/2o "F" 5...862MHz 24V-130mA  |          | 1    |
| 5796   | PicoKom Domestic Power Supply Unit 1i/1o "EasyF"<br>SATmix: 5...2400MHz 12V-220mA  |          | 1/10 |
| 5501   | Domestic Power Supply Unit 1i/2o "F" 5...862MHz 12V-220mA (UK Plug)  |          | 1    |
| <b>PROTECTION ACCESSORIES</b>                          |  |          |      |
| 4947   | Coaxial Atmospheric Surge Arrestor 90V 0...3GHz  |          | 1/20 |



▲ INNOVA BOSS



▲ Q-BOSS



▲ 4947



▲ 5796



▲ 545720



Ask us about our KITS with antenna and PSU.

## What you need to know to choose the right NOVA special antenna?

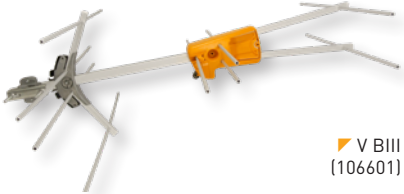
|  | ANTENNA         | RECEPTION TYPE              | INSTALLATION RECOMMENDED FOR             | HIGHLIGHT   |
|--|-----------------|-----------------------------|--|---|
|  | <b>INNOVA</b>   | STATIC                      | Emblematic buildings, Facades, Balconies | <ul style="list-style-type: none"> <li>Low visual impact.</li> </ul>  |
|  | <b>CAMPNOVA</b> | STATIC<br>(Long term stay)  | Caravans (Campings)                      | <ul style="list-style-type: none"> <li>Low visual impact.</li> <li>Mounting optimized to be installed in a caravan.</li> </ul>  |
|  | <b>OMNINOVA</b> | STATIC<br>(Short term stay) | Caravans & Ships                         | <ul style="list-style-type: none"> <li>No need to be oriented.</li> </ul>   |
|  | <b>TRINOVA</b>  | IN MOTION                   | Caravans, Ships & Buses                  | <ul style="list-style-type: none"> <li>Low visual impact.</li> <li>No need to be oriented.</li> <li>It is part of the complete system TVMotion (antenna+receptor) which is able to receive signals in all the directions and always choose the best one.</li> </ul> |
|  | <b>4GNOVA</b>   | STATIC                      | Housing                                  | <ul style="list-style-type: none"> <li>Low visual impact.</li> <li>Reception of LTE 4G signals to extend the telephone coverage.</li> </ul>   |

**TERRESTRIAL ANTENNAS**

| Ref.                           | Description  |          |     |
|--------------------------------|--|----------|-----|
| <b>PASSIVE ANTENNAS</b>        |  |          |     |
| <b>FM</b>                      |  |          |     |
| 1201                           | FM Terrestrial Antenna 88...108MHz Circular G 1dBi   | ○        | 1/5 |
| <b>VHF, BAND III &amp; DAB</b> |  |          |     |
| 1050                           | BIII/DAB Terrestrial Antenna 174...240MHz 3 Elements G 8dBi (Single Packing)   | ○        | 1   |
| 105001                         | BIII/DAB Terrestrial Antenna 174...240MHz 3 Elements G 8dBi (Multiple Packing)   | ○        | 5   |
| 106501                         | BIII Terrestrial Antenna (Ch5-12) 7 Elements G 9.5dBi (Single Packing)   | ○        | 1   |
| 106601                         | V BIII Terrestrial Antenna (Ch5-12) 10 Elements G 9dBi (Single Packing)  | ○        | 1/6 |
| <b>COMBINED VHF/ UHF (MIX)</b> |  |          |     |
| 149321                         | V ZENIT MIX Terrestrial Antenna BIII/UHF (Ch 5-12 / 21-48) G 8.5/13dBi (Single Packing)                                | LTE700 ○ | 1   |
| 149301                         | V ZENIT MIX Terrestrial Antenna BIII/UHF (Ch 5-12 / 21-58/59/60 Configurable bandwidth) G 8.5/15dBi (Single Packing)   | LTE790 ○ | 1   |
| 149302                         | V ZENIT MIX Terrestrial Antenna BIII/UHF (Ch 5-12 / 21-58/59/60 Configurable bandwidth) G 8.5/15dBi (Multiple Packing) | LTE790 ○ | 10  |
| <b>UHF</b>                     |  |          |     |
| 802440                         | Yagi Terrestrial Antenna UHF (Ch21-60) 10 Elements G 8.5dBi  | LTE790 ○ | 15  |
| 802441                         | Yagi Terrestrial Antenna UHF (Ch21-60) 10 Elements G 8.5dBi Black  | LTE790 B | 15  |
| 111942                         | Yagi Edge Terrestrial Antenna UHF (Ch21-60) 12 Elements G 10dBi (Single Packing)                                       | LTE790 ○ | 1   |
| 111940                         | Yagi Edge Terrestrial Antenna UHF (Ch21-60) 12 Elements G 10dBi (Multiple Packing)                                     | LTE790 ○ | 15  |
| 111941                         | Yagi Edge Terrestrial Antenna UHF (Ch21-60) 12 Elements G 10dBi Black (Multiple Packing)                               | LTE790 B | 15  |
| 112140                         | L 790 Terrestrial Antenna UHF (Ch21-60) 18 Elements G 13dBi  | LTE790 ○ | 6   |
| 112141                         | L 790 Terrestrial Antenna UHF (Ch21-60) 18 Elements G 13dBi Black  | LTE790 B | 6   |
| 149221                         | V ZENIT Terrestrial Antenna UHF (Ch21-48) G 13dBi (Single packing)   | LTE700 ○ | 1/6 |
| 149222                         | V ZENIT Terrestrial Antenna UHF (Ch21-48) G 13dBi (Multiple packing)   | LTE700 ○ | 10  |
| 149201                         | V ZENIT Terrestrial Antenna UHF (Ch21-58/59/60 Configurable bandwidth) G 15dBi (Single Packing)                        | LTE790 ○ | 1/6 |
| 149202                         | V ZENIT Terrestrial Antenna UHF (Ch21-58/59/60 Configurable bandwidth) G 15dBi (Multiple Packing)                      | LTE790 ○ | 10  |
| 108320                         | Panel Terrestrial Antenna UHF(Ch21-48) 4 Dipoles G 13dBi   | LTE700 ○ | 1   |
| 108341                         | Panel Terrestrial Antenna UHF(Ch21-60) 4 Dipoles G 14dBi Black   | LTE790 B | 1   |
| <b>EXTENDED 4G COVERAGE</b>    |  |          |     |
| 650101                         | 4GNOVA Antenna 4G/LTE 698...960/1700...2700MHz G 7dBi (0.7m Female "N")  | W        | 1   |
| 650102                         | 4GNOVA Antenna 4G/LTE 698...960/1700...2700MHz G 7dBi (7.5m Male "SMA")  | W        | 1   |



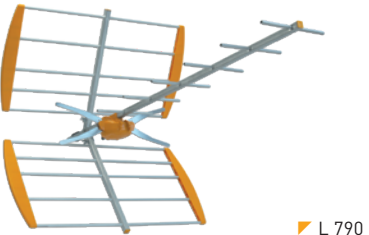
FM



V BIII (106601)



Yagi Edge (111940 & 111942)



L 790 (112140)



V ZENIT



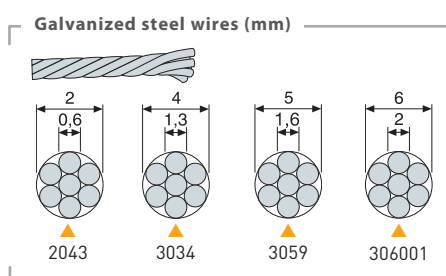
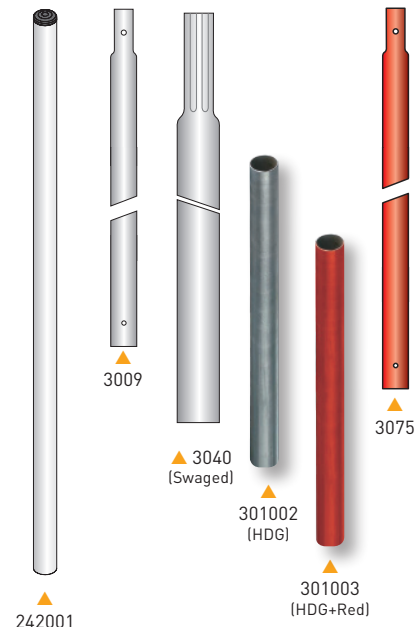
V ZENIT MIX



4GNOVA

# TERRESTRIAL ANTENNAS

| Ref.                            | Description  |   |      |
|---------------------------------|--|---|------|
| <b>MASTS &amp; SUPPORTS</b>     |  |   |      |
| <b>ZINC+RCP MASTS</b>           |  |   |      |
| 3040                            | Swaged Mast Zinc+RCP 1.5m x Ø 40mm x Thickness 1.25mm        | G | 6    |
| 3041                            | Swaged Mast Zinc+RCP 2m x Ø 40mm x Thickness 1.25mm          | G | 4    |
| 242001                          | Mast Zinc+RCP 1m x Ø 35mm x Thickness 1mm                    | G | 6    |
| 2407                            | Mast Zinc+RCP 1.45m x Ø 35mm x Thickness 1.5mm               | G | 8    |
| 3008                            | Mast Zinc+RCP 2.5m x Ø 35mm x Thickness 1.5mm                | G | 6    |
| 3042                            | Mast Zinc+RCP 2.5m x Ø 35mm x Thickness 1mm                  | G | 6    |
| 3009                            | Mast Zinc+RCP 2.5m x Ø 40mm x Thickness 2mm                  | G | 4    |
| 3072                            | Mast Zinc+RCP 3m x Ø 40mm x Thickness 2mm                    | G | 4    |
| 3010                            | Mast Zinc+RCP 3m x Ø 45mm x Thickness 2mm                    | G | 4    |
| <b>HOT-DIP GALVANIZED MASTS</b> |  |   |      |
| 301002                          | Mast HDG 3m x Ø 45mm x Thickness 2mm                         | G | 4    |
| 301003                          | Mast HDG+Red 3m x Ø 45mm x Thickness 2mm                     | R | 1    |
| <b>ZINC+COLOUR MASTS</b>        |  |   |      |
| 307502                          | Mast Zinc+White 2m x Ø 45mm x Thickness 2mm                  | W | 4    |
| 300802                          | Mast Zinc+White 2.5m x Ø 35mm x Thickness 1.5mm              | W | 6    |
| 3075                            | Mast Zinc+Red 3m x Ø 45mm x Thickness 2mm                    | R | 4    |
| <b>CLAMPS</b>                   |  |   |      |
| 2117                            | Mast Clamp Zinc+RCP for Window 586x300mm x Ø30mm             | G | 1    |
| <b>SUPPORTS FOR CHIMNEY</b>     |  |   |      |
| 2414                            | Tubular Mast Bracket Zinc+RCP for Chimney 415x345mm x Ø 30mm | G | 1    |
| 2415                            | Reinforced Mast Bracket Zinc+RCP for Chimney 396x400mm       | G | 1    |
| <b>SUPPORTS FOR BOLTING</b>     |  |   |      |
| 2401                            | "L" Mast Bracket Zinc+RCP for Bolting 300mm                  | G | 10   |
| 2403                            | "W" Mast Bracket Zinc+RCP for Bolting 250mm                  | G | 10   |
| 2404                            | "U" Mast Bracket Zinc+RCP for Bolting 500mm                  | G | 6    |
| 240410                          | "U" Mast Bracket Zinc+RCP for Bolting 300mm                  | G | 6    |
| 2409                            | Angled Mast Bracket Zinc+RCP for Bolting 128mm               | G | 10   |
| <b>SUPPORTS FOR EMBEDDING</b>   |  |   |      |
| 2405                            | "I" Mast Bracket Zinc+RCP for Embedding 350mm                | G | 6    |
| 2406                            | "U" Reinforced Mast Bracket Zinc+RCP for Embedding 500mm     | G | 6    |
| 2410                            | "U" Reinforced Mast Bracket Zinc+RCP for Embedding 250mm     | G | 10   |
| <b>ACCESSORIES</b>              |  |   |      |
| 2047                            | Jaw Clamp Zinc+RCP for Masts Up Ø 25...45mm                  | G | 10   |
| 2408                            | Saddle & Clamp Zinc+RCP for Guy Wire, Inner Ø 46mm           | G | 10   |
| 2412                            | Corner Piece Zinc+RCP for Chimney                            | G | 10   |
| 2413                            | Mast Clamp Zinc+RCP Ø 35mm                                   | G | 6    |
| <b>CABLE CLIPS</b>              |  |   |      |
| 2000                            | Opened Clip for Coaxial Cable (100 units)                    |   | 1/10 |
| 2011                            | Closed Clip for Coaxial Cable (100 units)                    |   | 1/20 |
| <b>STEEL WIRES</b>              |  |   |      |
| 2043                            | Galvanized Steel Wire Ø 2mm                                  |   | 100  |
| 3034                            | Galvanized Steel Wire Ø 4mm                                  |   | 100  |
| 3059                            | Galvanized Steel Wire Ø 5mm                                  |   | 100  |
| 306001                          | Galvanized Steel Wire Ø 6mm                                  |   | 200  |





**SATELLITE ANTENNAS**

| Ref.   | Description  |    |    |
|--|--|----|----|
| <b>QSD SERIES (Quality Satellite Dishes)</b> |  |    |    |
| <b>ALUMINIUM OFFSET DISHES</b>               |  |    |    |
| 7902   | QSD High Quality Offset Dish 75 Aluminium G 38.5dBi (750x850mm) Orange | ○  | 1  |
| 790204                                       | QSD High Quality Offset Dish 75 Aluminium G 38.5dBi (750x850mm) White  | Ⓜ  | 1  |
| 7903   | QSD High Quality Offset Dish 85 Aluminium G 39.5dBi (850x950mm) Orange | ○  | 1  |
| 790304                                       | QSD High Quality Offset Dish 85 Aluminium G 39.5dBi (850x950mm) White  | Ⓜ  | 1  |
| <b>ISD SERIES (Inox Satellite Dishes)</b>    |  |    |    |
| <b>ALUMINIUM OFFSET DISHES</b>               |  |    |    |
| ★ 793001                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Orange                         | ○  | 1  |
| ★ 793002                                     | ISD Offset Dish 630 Aluminium G 36.2dBi White                          | Ⓜ  | 1  |
| ★ 793003                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Graphite                       | Gr | 1  |
| ★ 793004                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Red-brick                      | Rb | 1  |
| ★ 793011                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Orange (Multiple packing)      | ○  | 10 |
| ★ 793012                                     | ISD Offset Dish 630 Aluminium G 36.2dBi White (Multiple packing)       | Ⓜ  | 10 |
| ★ 793013                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Graphite (Multiple packing)    | Gr | 10 |
| ★ 793014                                     | ISD Offset Dish 630 Aluminium G 36.2dBi Red-brick (Multiple packing)   | Rb | 10 |
| 793101                                       | ISD Offset Dish 830 Aluminium G 39dBi Orange                           | ○  | 1  |
| 793102                                       | ISD Offset Dish 830 Aluminium G 39dBi White                            | Ⓜ  | 1  |
| 793103                                       | ISD Offset Dish 830 Aluminium G 39dBi Graphite                         | Gr | 1  |
| 793104                                       | ISD Offset Dish 830 Aluminium G 39dBi Red-brick                        | Rb | 1  |
| 793111                                       | ISD Offset Dish 830 Aluminium G 39dBi Orange (Multiple packing)        | ○  | 5  |
| 793112                                       | ISD Offset Dish 830 Aluminium G 39dBi White (Multiple packing)         | Ⓜ  | 5  |
| 793113                                       | ISD Offset Dish 830 Aluminium G 39dBi Graphite (Multiple packing)      | Gr | 5  |
| 793114                                       | ISD Offset Dish 830 Aluminium G 39dBi Red-brick (Multiple packing)     | Rb | 5  |
| <b>SATELLITE DISHES</b>                      |  |    |    |
| <b>ALUMINIUM OFFSET DISHES</b>               |  |    |    |
| 757401                                       | Offset Dish 1300 Aluminium G 42dBi White (Multiple packing)            | Ⓜ  | 10 |



**QSD SERIES**



The long life alluminium dish, quality signal reception for life. TÜV approved (german certifying organization).

**ISD SERIES**



This new range of satellite dishes is built using aluminium and stainless steel to guarantee the protection against rust. The bracket and LNB holder are built using a special polymer widely used in a highly professional sector, and reinforced with fiberglass for an extreme resistance. Its improved structure has been designed to make assembly easier.

[en.televes.com/isd](http://en.televes.com/isd)

**Compatibility between supports & dishes**

| Ø Support                  | 35   | 45   | 48   | 60     |
|----------------------------|------|------|------|--------|
| Dishes                     | 7393 | 7349 | 7371 | 719202 |
| ISD                        | ✓    | ✓    | ✓    | ✓      |
| QSD                        | ✗    | ✓    | ✓    | ✓      |
| <b>Other typical sizes</b> |      |      |      |        |
| 600                        | ✓    | ✓    | ✓    | ✗      |
| 800                        | ✓    | ✓    | ✓    | ✓      |
| 1000                       | ✗    | ✗    | ✗    | ✓      |
| 1100                       | ✗    | ✗    | ✗    | ✓      |
| 1300                       | ✗    | ✗    | ✗    | ✓      |



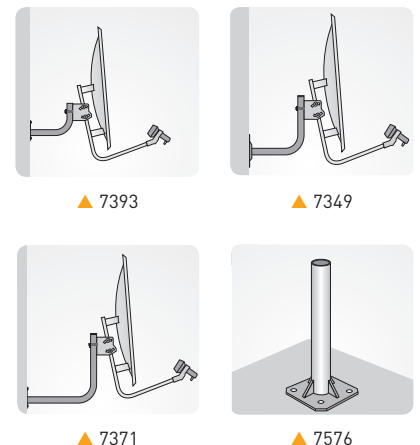
# SATELLITE ANTENNAS

| Ref.                                     | Description   |  |      |
|--|---|--|------|
| <b>LNBs</b>                              |   |  |      |
| <b>OFFSET</b>                            |   |  |      |
| 7475                                     | Offset LNB Single (Universal) Hh/Vh/HI/VI G 60dB  |  | 1/10 |
| 747701                                   | Offset LNB Quattro Hh-Vh-HI-VI G 60dB   |  | 1/30 |
| 747802                                   | Offset LNB Twin (2 Outputs Hh/Vh/HI/VI) G 60dB  |  | 1/30 |
| 761001                                   | Offset LNB Quad (4 Outputs Hh/Vh/HI/VI) G 60dB  |  | 1/30 |
| 7613                                     | Offset LNB Octo (8 Outputs Hh/Vh/HI/VI) G 60dB  |  | 1/30 |
| 7611                                     | Offset LNB Monoblock (2 Universal LNBs) G 57dB Grey. 830 dishes only                                  |  | 1/30 |
| <b>OPTICAL FIBER</b>                     |   |  |      |
| 2353                                     | Offset Optical LNB 1310nm "FC/PC" G 72dB Po 7dBm (Up to 32 converters), Grey                          |  | 1    |
| 2363                                     | P.F. Optical LNB 1310nm "FC/PC" G 72dB Po 7dBm Grey   |  | 1    |
| <b>ACCESSORIES</b>                       |   |  |      |
| 7450                                     | Current Injector 10...2150MHz 1...24Vdc-1.5A  |  | 1/20 |
| 7485                                     | Line Amplifier 1i/1o "F": UHF/SAT[dc] G -2.5/20dB Vo 112.5dBμV  |  | 1/10 |
| 7268                                     | DiSEqC 2.0 Switch 2i/1o 0...2400MHz   |  | 1/10 |
| 4163                                     | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm               |  | 1/5  |
| <b>BRACKETS &amp; FIXING ACCESSORIES</b> |   |  |      |
| <b>HOT-DIP GALVANIZED BRACKETS</b>       |   |  |      |
| 757602                                   | "T" Bracket HDG Ground Mount 1000x200mm / Ø48mm x Thickness 2.9mm                                     |  | 1    |
| <b>GALVANIZED BRACKETS</b>               |   |  |      |
| 719201                                   | "Y" Bracket Galvanized Wall/Ground Mount<br>551x439mm or 620x247mm / Ø 60mm x Thickness 1.5mm         |  | 5    |
| 719202                                   | "Y" Bracket Galvanized Wall/Ground Mount<br>728x473mm or 720x481mm / Ø 45mm x Thickness 1.5mm         |  | 1    |
| <b>ZINC+RCP BRACKETS</b>                 |   |  |      |
| 7393                                     | "L" Bracket Zinc+RCP Wall Mount 284x194mm / Ø 35mm x Thickness 1.5mm                                  |  | 10   |
| 7349                                     | "L" Bracket Zinc+RCP Wall Mount 380x350mm / Ø 45mm x Thickness 1.5mm                                  |  | 5    |
| 7371                                     | "L" Bracket Zinc+RCP Wall Mount 500x450mm / Ø 45mm x Thickness 2mm                                    |  | 5    |
| 7576                                     | "T" Bracket Zinc+RCP Ground Mount 750x200mm / Ø 60mm x Thickness 2.9mm                                |  | 1    |
| <b>BASES</b>                             |   |  |      |
| 7409                                     | Embedded Base Zinc+RCP for Ref.7576 or 757602, Height 200mm   |  | 1    |
| <b>MULTISATELLITE SUPPORTS</b>           |   |  |      |
| 790901                                   | Multi-feed Support Up to 4 SAT, QSD Dishes<br>Includes: Rail (up to 20°) + 1 LNB Support (Ref.790902) |  | 1/10 |
| 790902                                   | LNB Support for QSD Dishes  |  | 1/10 |



**Galvanized brackets**

| Ref.   | Wall mount (mm) | Ground mount (mm) |
|--------|-----------------|-------------------|
| 719201 | 551 x 439       | 620 x 247         |
| 719202 | 728 x 473       | 720 x 481         |



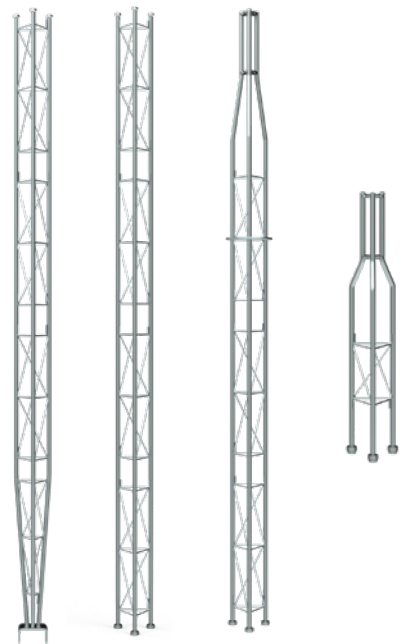


# TOWERS

| Ref.                                 | Description  |  |     |
|--------------------------------------|--|--|-----|
| <b>PACK TOWER</b>                    |  |  |     |
| <b>COMPLETE TOWER</b>                |  |  |     |
| 306501                               | "Pack" Tower Galvanized+Orange 2.2m (Mast and Accessories included)                              |  | 1   |
| <b>180 SE TOWER</b>                  |  |  |     |
| <b>ZINC+RCP SECTIONS</b>             |  |  |     |
| 3014                                 | Upper Section 180 SE Tower Zinc+RCP 1.25m (mast Ømax 35mm)                                       |  | 1   |
| 3015                                 | Upper Section 180 SE Tower Zinc+RCP 2.5m, with Wire Ring (mast Ømax 35mm)                        |  | 1   |
| 3017                                 | Middle Section 180 SE Tower Zinc+ RCP 2.5m   |  | 1   |
| <b>ACCESSORIES</b>                   |  |  |     |
| 3019                                 | Fixed Embedded Base 180 SE Tower Zinc+RCP  |  | 1   |
| 3020                                 | Fixed Bolting Base 180 SE Tower Zinc+RCP   |  | 1   |
| <b>180 TOWER</b>                     |  |  |     |
| <b>ZINC+RCP SECTIONS</b>             |  |  |     |
| 3021                                 | Upper Section 180 Tower Zinc+RCP 1m (mast Ømax 46mm)   |  | 1   |
| 3032                                 | Upper Section 180 Tower Zinc+RCP 3m (mast Ømax 46mm)   |  | 1   |
| 3031                                 | Middle Section 180 Tower Zinc+RCP 3m   |  | 1   |
| 3037                                 | Lower Section Pivoting 180 Tower Zinc+RCP 3m   |  | 1   |
| <b>HOT-DIP GALVANIZED SECTIONS</b>   |  |  |     |
| 303201                               | Upper Section 180 Tower HDG 3m (mast Ømax 46mm)  |  | 1   |
| 303101                               | Middle Section 180 Tower HDG 3m  |  | 1   |
| 303701                               | Lower Section Pivoting 180 Tower HDG 3m  |  | 1   |
| <b>ACCESSORIES</b>                   |  |  |     |
| 3058                                 | Guy Wire Ring 180/360 Tower Zinc+RCP   |  | 20  |
| 305801                               | Guy Wire Ring 180/360 Tower HDG  |  | 20  |
| 3029                                 | Embedded Frame 180 Tower Zinc+RCP for Fixed Base (Ref. 3038)                                     |  | 1   |
| 3038                                 | Fixed Bolting/Embedded (with frame) Base 180 Tower Zinc+RCP                                      |  | 1   |
| 303801                               | Fixed Bolting/Embedded (with frame) Base 180 Tower HDG   |  | 1   |
| 3048                                 | Pivoting Embedded Base 180 Tower Zinc+ RCP   |  | 1   |
| 304801                               | Pivoting Embedded Base 180 Tower HDG   |  | 1   |
| 305001                               | Structural Cube 180 Tower Zinc+RCP 200mm   |  | 1   |
| 3034                                 | Galvanized Steel Wire Ø 4mm  |  | 100 |
| <b>Q1500 TOWER (Stainless Steel)</b> |  |  |     |
| <b>COMPLETE TOWER</b>                |  |  |     |
| 3049                                 | Q1500 Tower Kit Stainless Steel 14.5m<br>Stainless Steel Accessories included (Guy Wire at 1.5m) |  | 1   |
| 304910                               | Q1500 Tower Bases Stainless Steel (1 tower base & 3 guy wire bases)                              |  | 1   |



▲ Pack Tower  
(Compatible with support Ref. 7349)



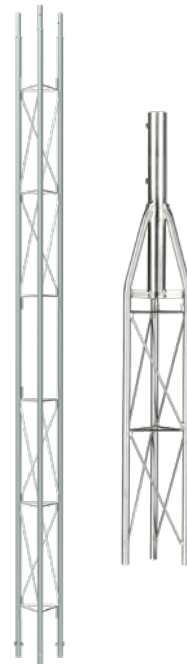
▲ 180 Sections



▲ 3048xx

**Types of finishing**

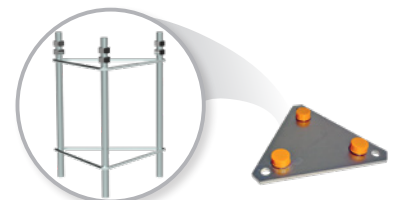
|  |  |
|--|--|
| <br><b>HDG</b><br>Hot-Dip Galvanized   | <br><b>Zinc + RCP</b><br>Zinc plated + Reactive Coating Process                                      |
| <br><b>HDG + Painting</b><br>Hot-Dip Galvanized + Lacquered in oven with electrostatic powder of polyester | <br><b>Zinc + Painting</b><br>Zinc plated + Lacquered in oven with electrostatic powder of polyester |



▲ 180 SE Tower



▲ Q1500 Tower (Stainless Steel)  
(Ref. 3049 + Ref. 304910)

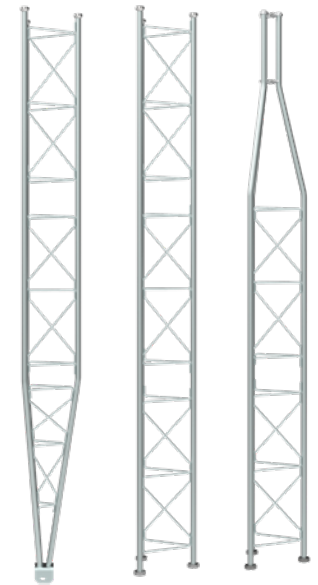


▲ 3029 (Frame)

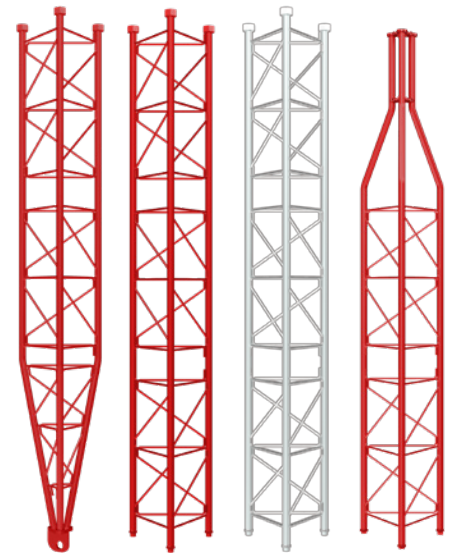
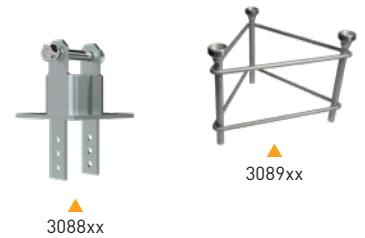
▲ 3038xx

# TOWERS

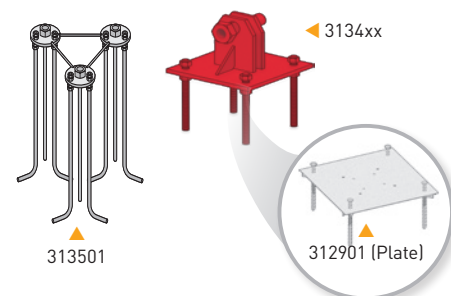
| Ref.  | Description   |   |     |
|---|---|---|-----|
| <b>360 TOWER</b>                            |   |   |     |
| <b>ZINC+RCP SECTIONS</b>                    |   |   |     |
| 3085  | Upper Section 360 Tower Zinc+RCP 3m (mast Ømax 52mm)                              | G | 1   |
| 3087  | Middle Section 360 Tower Zinc+RCP 3m  | G | 1   |
| 3086  | Lower Section Pivoting 360 Tower Zinc+RCP 3m                                      | G | 1   |
| <b>ZINC+PAINTING SECTIONS</b>               |   |   |     |
| 308501                                      | Upper Section 360 Tower Zinc+Red 3m (mast Ømax 52mm)                              | R | 1   |
| 308502                                      | Upper Section 360 Tower Zinc+White 3m (mast Ømax 52mm)                            | W | 1   |
| 308701                                      | Middle Section 360 Tower Zinc+Red 3m  | R | 1   |
| 308702                                      | Middle Section 360 Tower Zinc+White 3m  | W | 1   |
| 308601                                      | Lower Section Pivoting 360 Tower Zinc+Red 3m                                      | R | 1   |
| 308602                                      | Lower Section Pivoting 360 Tower Zinc+White 3m                                    | W | 1   |
| <b>HOT-DIP GALVANIZED SECTIONS</b>          |   |   |     |
| 308503                                      | Upper Section 360 Tower HDG 3m (mast Ømax 52mm)                                   | G | 1   |
| 308703                                      | Middle Section 360 Tower HDG 3m   | G | 1   |
| 308603                                      | Lower Section Pivoting 360 Tower HDG 3m   | G | 1   |
| <b>HOT-DIP GALVANIZED+PAINTING SECTIONS</b> |   |   |     |
| 308504                                      | Upper Section 360 Tower HDG+Red 3m (mast Ømax 52mm)                               | R | 1   |
| 308704                                      | Middle Section 360 Tower HDG+Red 3m   | R | 1   |
| 308705                                      | Middle Section 360 Tower HDG+White 3m   | W | 1   |
| 308604                                      | Lower Section Pivoting 360 Tower HDG+Red 3m                                       | R | 1   |
| 308605                                      | Lower Section Pivoting 360 Tower HDG+White 3m                                     | W | 1   |
| <b>ACCESSORIES</b>                          |   |   |     |
| 3088  | Pivoting Embedded Base 360 Tower Zinc+RCP   | G | 1   |
| 308801                                      | Pivoting Embedded Base 360 Tower HDG  | G | 1   |
| 3089  | Fixed Embedded Base 360 Tower Zinc+RCP  | G | 1   |
| 308901                                      | Fixed Embedded Base 360 Tower HDG   | G | 1   |
| 3058  | Guy Wire Ring 180/360 Tower Zinc+RCP  | G | 20  |
| 305801                                      | Guy Wire Ring 180/360 Tower HDG   | G | 20  |
| 3059  | Galvanized Steel Wire Ø 5mm   |   | 100 |
| <b>450 TOWER</b>                            |   |   |     |
| <b>ZINC+PAINTING SECTIONS</b>               |   |   |     |
| 3133  | Upper Section 450 Tower Zinc+Red 3m (mast Ømax 62mm)                              | R | 1   |
| 3131  | Middle Section 450 Tower Zinc+Red 3m  | R | 1   |
| 313101                                      | Middle Section 450 Tower Zinc+White 3m  | W | 1   |
| 3132  | Middle Section Reinforced 450 Tower Zinc+Red 3m                                   | R | 1   |
| 313201                                      | Middle Section Reinforced 450 Tower Zinc+White 3m                                 | W | 1   |
| 3130  | Lower Section Pivoting Reinforced 450 Tower Zinc+Red 3m                           | R | 1   |
| <b>HOT-DIP GALVANIZED+PAINTING SECTIONS</b> |   |   |     |
| 313301                                      | Upper Section 450 Tower HDG+Red 3m (mast Ømax 62mm)                               | R | 1   |
| 313102                                      | Middle Section 450 Tower HDG+Red 3m   | R | 1   |
| 313103                                      | Middle Section 450 Tower HDG+White 3m   | W | 1   |
| 313202                                      | Middle Section Reinforced 450 Tower HDG+Red 3m                                    | R | 1   |
| 313203                                      | Middle Section Reinforced 450 Tower HDG+White 3m                                  | W | 1   |
| 313001                                      | Lower Section Pivoting Reinforced 450 Tower HDG+Red 3m                            | R | 1   |
| <b>ACCESSORIES</b>                          |   |   |     |
| 312901                                      | Surface Plate 450/550 Tower for Pivoting Base<br>(Refs. 3134xx & 3142xx) Zinc+RCP | G | 1   |
| 3134  | Pivoting Embedded/Bolting (with plate) Base 450 Tower Zinc+Red                    | R | 1   |
| 313401                                      | Pivoting Embedded/Bolting (with plate) Base 450 Tower HDG                         | G | 1   |
| 313501                                      | Fixed Embedded Base 450 Tower Zinc+RCP  | G | 1   |
| 3144  | Guy Wire Ring 450/550 Tower Zinc+RCP  | G | 1   |
| 314401                                      | Guy Wire Ring 450/550 Tower HDG   | G | 1   |
| 306001                                      | Galvanized Steel Wire Ø 6mm   |   | 200 |



▲ 360 Sections



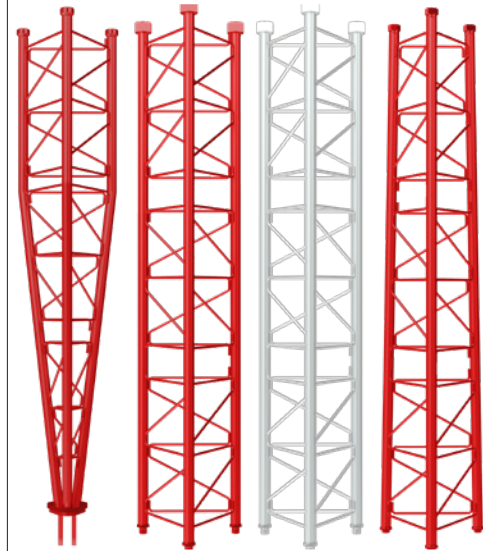
▲ 450 Sections



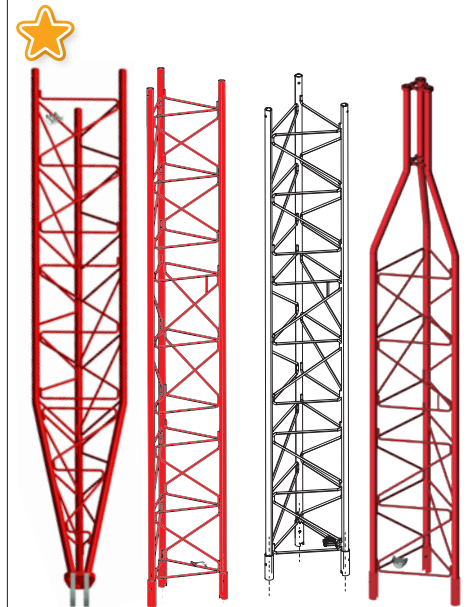
# TOWERS

# Televes

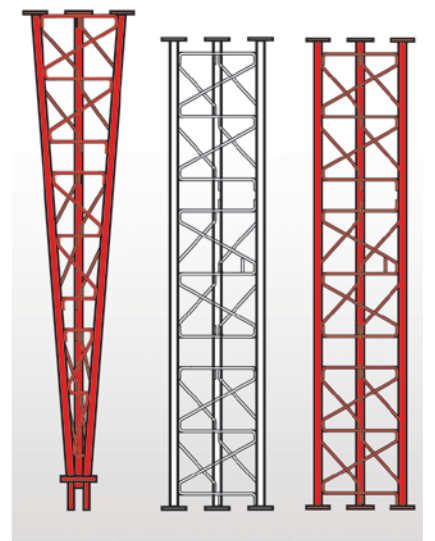
| Ref.   | Description   |   |     |
|--|---|---|-----|
| <b>550 TOWER</b>                               |   |   |     |
| <b>ZINC+PAINTING SECTIONS</b>                  |   |   |     |
| 3141   | Transition Section 550 to 450 Tower Zinc+Red 3m                                   | R | 1   |
| 3140   | Middle Section 550 Tower Zinc+Red 3m  | R | 1   |
| 314001   | Middle Section 550 Tower Zinc+White 3m  | W | 1   |
| 313901   | Lower Section Pivoting 550 Tower Zinc+Red 3m                                      | R | 1   |
| <b>HOT-DIP GALVANIZED+PAINTING SECTIONS</b>    |   |   |     |
| 314101   | Transition Section 550 to 450 Tower HDG+Red 3m                                    | R | 1   |
| 314002   | Middle Section 550 Tower HDG+Red 3m   | R | 1   |
| 314003   | Middle Section 550 Tower HDG+White 3m   | W | 1   |
| 313902   | Lower Section Pivoting 550 Tower HDG+Red 3m                                       | R | 1   |
| <b>ACCESSORIES</b>                             |   |   |     |
| 312901   | Surface Plate 450/550 Tower for Pivoting Base<br>(Refs. 3134xx & 3142xx) Zinc+RCP | G | 1   |
| 3142   | Pivoting Embedded/Bolting (with plate) Base 550 Tower Zinc+Red                    | R | 1   |
| 314201   | Pivoting Embedded/Bolting (with plate) Base 550 Tower HDG+Red                     | R | 1   |
| 3143   | Fixed Embedded Base 550 Tower Zinc+RCP  | G | 1   |
| 314301   | Fixed Embedded Base 550 Tower HDG   | G | 1   |
| 3144   | Guy Wire Ring 450/550 Tower Zinc+RCP  | G | 1   |
| 314401   | Guy Wire Ring 450/550 Tower HDG   | G | 1   |
| 306001   | Galvanized Steel Wire Ø 6mm   |   | 200 |
| <b>450XL - REINFORCED TOWER <sup>(1)</sup></b> |   |   |     |
| ★ 313311                                       | Upper Section 450XL Tower HDG+Red 3m (mast Ømax 62mm)                             | R | 1   |
| ★ 313112                                       | Middle Section 450XL Tower HDG+Red 3m   | R | 1   |
| ★ 313113                                       | Middle Section 450XL Tower HDG+White 3m   | W | 1   |
| ★ 313212                                       | Middle Section Reinforced 450XL Tower HDG+Red 3m                                  | R | 1   |
| ★ 313213                                       | Middle Section Reinforced 450XL Tower HDG+White 3m                                | W | 1   |
| ★ 313011                                       | Lower Section Pivoting Reinforced 450XL Tower HDG+Red 3m                          | R | 1   |
| <b>ACCESSORIES</b>                             |   |   |     |
| ★ 313412                                       | Pivoting Embedded/Bolting (with plate) Base 450XL Tower HDG+Red                   | R | 1   |
| 312901   | Surface Plate 450/550 Tower for Pivoting Base<br>(Refs. 3134xx & 3142xx) Zinc+RCP | G | 1   |
| <b>550XL - REINFORCED TOWER <sup>(1)</sup></b> |   |   |     |
| <b>HOT-DIP GALVANIZED+PAINTING SECTIONS</b>    |   |   |     |
| 313810   | Top Mast Holder 550XL Reinforced Tower HDG+Red 0.25m (mast Ømax 62mm)             | R | 1   |
| 314010   | Middle Section 550XL Reinforced Tower HDG+Red 3m                                  | R | 1   |
| 314011   | Middle Section 550XL Reinforced Tower HDG+White 3m                                | W | 1   |
| 313911   | Lower Section Pivoting 550XL Reinforced Tower HDG+Red 3m                          | R | 1   |
| <b>ACCESSORIES</b>                             |   |   |     |
| 314210   | Pivoting Embedded Base 550XL Reinforced Tower HDG+Red                             | R | 1   |
| 314401   | Guy Wire Ring 450/550 Tower HDG   | G | 1   |



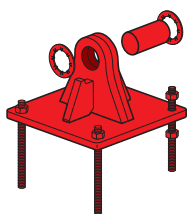
▲ 550 Sections



▲ 450XL Sections



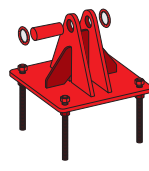
▲ 550XL Sections - Reinforced



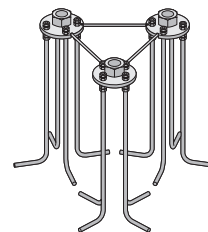
▲ 314210



▲ 313810



▲ 3142/314201



▲ 3143xx

(1) Due to their assembly system, sections of these towers are not compatible with the rest of the tower range.

| Ref.   | Description  |        |       |
|--|--|--------|-------|
| <b>LTE FILTERS</b>   |  |        |       |
| <b>"EasyF" CONNECTOR</b>                                       |  |        |       |
| 405202   | High Rejection LTE Filter (HR) "EasyF" 47...694MHz VHF/UHF (Ch21-48) Outdoor                           | LTE700 | 1/10  |
| 405101   | Medium Rejection LTE Filter (MR) "EasyF" 470...774MHz UHF (Ch21-58) Outdoor                            | LTE790 | 1/10  |
| 405402   | High Rejection LTE Filter (HR) "EasyF" 47...782MHz VHF/UHF (Ch21-59) Outdoor                           | LTE790 | 1/10  |
| 405401   | High Rejection LTE Filter (HR) "EasyF" 47...790MHz VHF/UHF (Ch21-60) Outdoor                           | LTE790 | 1/10  |
| <b>"F" CONNECTOR</b>   |  |        |       |
| 403201   | Medium Rejection LTE Filter (MR) "F" 47...694MHz VHF/UHF (Ch21-48), Indoor                             | LTE700 | 1/10  |
| 403101   | Medium Rejection LTE Filter (MR) "F" 470...774MHz UHF (Ch21-58) Indoor                                 | LTE790 | 1/10  |
| 403402   | High Rejection LTE Filter (HR) "F" 47...782MHz VHF/UHF (Ch21-59) Indoor                                | LTE790 | 1/10  |
| 403401   | High Rejection LTE Filter (HR) "F" 47...790MHz VHF/UHF (Ch21-60) Indoor                                | LTE790 | 1/10  |
| 403302   | Very High Rejection LTE Microcavities Filter (VHR) "F" 5...782MHz VHF/UHF (Ch21-59) Selective, Indoor  | LTE790 | 1/14  |
| 403301   | Very High Rejection LTE Microcavities Filter (VHR) "F" 5...790MHz VHF/UHF (Ch21-60) Selective, Indoor  | LTE790 | 1/14  |
| 403304   | Ultra High Rejection LTE Microcavities Filter (VHR) "F" 5...782MHz VHF/UHF (Ch21-59) Selective, Indoor | LTE790 | 1/10  |
| 4163   | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm                | G      | 1/5   |
| <b>"IEC" CONNECTOR</b> <span style="float:right">LTE790</span> |  |        |       |
| 404411   | Medium Rejection LTE Filter (MR) "IEC" 470...774MHz UHF (Ch21-58) Indoor (Bag B3)                      |        | 10    |
| 404401   | High Rejection LTE Filter (HR) "IEC" 47...782MHz VHF/UHF (Ch21-59) Indoor                              |        | 10/50 |
| 404412   | High Rejection LTE Filter (HR) "IEC" 47...790MHz VHF/UHF (Ch21-60) Indoor (Bag B3)                     |        | 10    |
| <b>COMBINERS</b> <span style="float:right">LTE790</span>       |  |        |       |
| <b>TERRESTRIAL</b>   |  |        |       |
| 404010   | Mast Triplexer 3i/1o "EasyF": BI/FM-BIII/DAB-UHF[dc]   |        | 1/10  |
| 404110   | Mast Triplexer 3i/1o "EasyF": VHF-UHF[dc]-UHF  |        | 1/10  |
| <b>TERRESTRIAL + 1 SATELLITE</b>                               |  |        |       |
| 745210   | Combiner MATV-SAT 2i/1o "F": 47..790-950..2400MHz[dc]  |        | 1/10  |
| 745220   | Mini-Combiner MATV-SAT 2i/1o "F": 47..790-950..2400MHz[dc]   |        | 10    |
| <b>TERRESTRIAL + 2 SATELLITES</b>                              |  |        |       |
| 740710   | Double Combiner (47...790/950...2400MHz[dc]) 3i/2o "F":<br>SAT1-MATV-SAT2 / SAT1+MATV-SAT2+MATV        |        | 1/10  |



▲ 404010



▲ Mini-mixer (745220)  
(57 x 47 x 13 mm)



▲ 745210

▲ 740710

## LTE FILTERS

Attenuate the LTE/4G or LTE/5G signals passing through the antenna towards active devices susceptible of being affected by them.



"easyF" model



Plug-in model  
("F" or "IEC" connection)



Filter based on microcavities  
Minimal insertion losses

## LTE ADAPTATION, ALL SOLUTIONS FOR ALL CASES



**AMPLIFICATION**

| Ref.  | Description  |               |      |
|---|--|---------------|------|
| <b>MAST AMPLIFICATION</b>   |  |               |      |
| <b>NANOKOM SERIES</b>   |  |               |      |
| ★ 561421  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF-UHF[dc]-SATmix[dc]<br>G 30-30- (-1.5)dB Vo 108dBμV 12...24V Powering (Switchable DC Pass)  | LTE700        | 1/10 |
| ★ 561401  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF-UHF[dc]-SATmix[dc]<br>G 30-30- (-2.5)dB Vo 107dBμV 12...24V Powering (Switchable DC Pass)  | LTE790        | 1/10 |
| ★ 561521  | NanoKom Mast Amplifier 3i/1o "EasyF": BIII/UHF[dc]-FMmix-SATmix[dc]<br>G 18/28- (-1.5) - (-2.5)dB Vo 106/108dBμV w/USOS 12...24V Powering (Switchable DC Pass)             | LTE700        | 1/10 |
| 561501  | NanoKom Mast Amplifier 3i/1o "EasyF": BIII/UHF[dc]-FMmix-SATmix[dc]<br>G 20/29- (-2) - (-2)dB Vo 105/107dBμV w/USOS 12...24V Powering (Switchable DC Pass)                 | LTE790        | 1/10 |
| 561620  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc]<br>G 30- (-1) - (-2)dB Vo 107dBμV w/USOS. 12...24V Powering<br>(Automatic LTE Filter & Switchable DC Pass) | AUTO LTE      | 1/10 |
| ★ 561621  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc]<br>G 30- (-1) - (-2)dB Vo 107dBμV w/USOS 12...24V Powering (Switchable DC Pass)                            | LTE700        | 1/10 |
| 561601  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc]<br>G 30- (-1) - (-2)dB Vo 107dBμV w/USOS 12...24V Powering (Switchable DC Pass)                            | LTE790        | 1/10 |
| ★ 561721  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-UHF-VHFmix<br>G 30-30- (-1.5)dB Vo 108dBμV 12...24V Powering (Switchable DC Pass)  | LTE700        | 1/10 |
| 561701  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-UHF-VHFmix<br>G 30-30- (-1.5)dB Vo 108dBμV 12...24V Powering (Switchable DC Pass)  | LTE790        | 1/10 |
| ★ 561821  | NanoKom Mast Amplifier 3i/1o "EasyF": BIII-UHF[dc]-FMmix<br>G 20-30- (-2)dB Vo 107dBμV w/USOS 12...24V Powering (Switchable DC Pass)                                       | LTE700        | 1/10 |
| 561801  | NanoKom Mast Amplifier 3i/1o "EasyF": BIII-UHF[dc]-FMmix<br>G 21-29- (-2)dB Vo 107dBμV w/USOS 12...24V Powering (Switchable DC Pass)                                       | LTE790        | 1/10 |
| <b>HIGH GAIN - HIGH OUTPUT LEVEL - 24V POWERING</b>                         |  | <b>LTE790</b> |      |
| 535640  | Mast Amplifier 1i/1o "EasyF": FM/BIII/DAB/UHF[dc]<br>G 15/31/31/41dB Vo 116dBμV 24V Pow. (Switchable DC Pass)  |               | 1/5  |
| 535740  | Mast Amplifier 3i/1o "EasyF": FM-BIII/DAB-UHF[dc]<br>G 15-32/32-42dB Vo 116dBμV 24V Pow. (Switchable DC Pass)  |               | 1/5  |
| 535840  | Mast Amplifier 4i/1o "EasyF": FM-BIII/DAB-UHF-UHF[dc]<br>G 15-32/32-41-41dB Vo 116dBμV 24V Pow. (Switchable DC Pass)   |               | 1/5  |
| <b>LOW GAIN - HIGH OUTPUT LEVEL - 12V POWERING</b>                          |  | <b>LTE790</b> |      |
| 536040  | Mast Amplifier 2i/1o "EasyF": BIII/DAB[dc]-UHF[dc]<br>G 26/26/26-26dB Vo 114 dBμV 12V Pow. (Switchable DC Pass)  |               | 1/5  |
| 536041  | Mast Amplifier 3i/1o "EasyF": BIII/DAB-UHF-UHF[dc]<br>G 26/26-26-26dB Vo 114 dBμV 12V Pow. (Switchable DC Pass)  |               | 1/5  |
| <b>SAT-MIX SERIES: VARIABLE GAIN - LOW OUTPUT LEVEL - 12...24V POWERING</b> |  |               |      |
| 5354  | Mast Amplifier 2i/4o "EasyF": UHF/Vmix[dc]-SATmix[dc]<br>G 20/(-9) - (-12)dB Vo 93dBμV 12...24V Pow.   |               | 1/5  |
| <b>DOMESTIC POWER SUPPLY UNITS: PICOKOM SERIES</b>                          |  |               |      |
| 5795  | PicoKom Domestic Power Supply Unit 1i/2o "EasyF": 5...862MHz 24V-130mA   |               | 1/10 |
| 5796  | PicoKom Domestic Power Supply Unit 1i/1o "EasyF" SATmix: 5...2500MHz 12V-220mA   |               | 1/10 |
| <b>DOMESTIC POWER SUPPLY UNITS</b>  |  |               |      |
| 5504  | Domestic Power Supply Unit 1i/2o "F" 5...862MHz 24V-130mA  |               | 1    |
| 550101  | Domestic Power Supply Unit 1i/2o "F" 5...862MHz 12V-220mA  |               | 1    |
| 5501  | Domestic Power Supply Unit 1i/2o "F" 5...862MHz 12V-220mA (UK Plug)  |               | 1    |
| <b>KITS: MAST AMPLIFIER + PSU</b>   |  | <b>LTE790</b> |      |
| 568002  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-UHF-VHFmix<br>+ PicoKom PSU 1i/2o "EasyF" 24V-130mA. Kit with Refs. 561701 & 5795  | ⊙             | 1    |
| 567802  | NanoKom Mast Amplifier 3i/1o "EasyF": UHF[dc]-VHFmix-SATmix[dc] with USOS<br>+ PicoKom PSU 1i/1o "EasyF" 12V-220mA. Kit with Refs.: 561601 & 5796                          | ⊙             | 1    |

≡ MAST NANOKOM SERIES



| Ref.  | Description  |          |      |
|---|--|----------|------|
| <b>MATV DOMESTIC AMPLIFIERS (47...694/790/862MHz)</b> |  |          |      |
| <b>"EasyF" CONNECTOR: PICOKOM SERIES</b>              |  |          |      |
| 560541  | PicoKom Domestic Amplifier 1i/1o "EasyF": 47...790MHz G 14/20dB<br>Vo 102/106dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA  | LTE790   | 1/10 |
| 560542  | PicoKom Domestic Amplifier 1i/2o "EasyF": 47...790MHz G 10/16dB<br>Vo 98/102dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA   | LTE790   | 1/10 |
| 560543  | PicoKom Domestic Amplifier 1i/(2o+TV) "EasyF": 47...790MHz G 10/16dB<br>Vo 98/102dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA  | LTE790   | 1/10 |
| 5605  | PicoKom Domestic Amplifier 1i/2o "EasyF": 47...862MHz<br>G 10/20dB Vo 105dBµV Auto-Adjustment + Preamp.Pow. 12V-150mA  |          | 1/10 |
| <b>"IEC" CONNECTOR</b>                                |  |          |      |
| 552740  | Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dBµV (Blister T1)   | LTE790   | 8    |
| 552741  | Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dBµV (UK plug)  | LTE790   | 5    |
| 552120  | Domestic Amplifier 1i/2o "IEC": 47...694MHz G 22dB Vo 104dBµV (Blister T1)   | LTE700   | 8    |
| 552840  | Domestic Amplifier 1i/(2o+TV) "IEC": 47...790MHz G 20dB<br>Vo 106dBµV + Output TV Outlet G 12dB (Blister T1)   | LTE790   | 8    |
| 545720  | Domestic Amplifier 1i/(2o+TV) "IEC": 47...694MHz G 20dB<br>Vs 110dBµV + Output TV Outlet G 12dB + Preamp.Pow. 12V-100mA (Blister T1)   | LTE700   | 8    |
| 5529  | Domestic Amplifier 1i/(4o+TV) "IEC": 47...862MHz G 16dB<br>Vo 102dBµV + Output to a TV Outlet G 11dB (Blister G)   |          | 8    |
| 552940  | Domestic Amplifier 1i/(4o+TV) "IEC": 47...790MHz G 16dB<br>Vo 102dBµV + Output to a TV Outlet G 11dB (Blister T1)  | LTE790   | 8    |
| <b>"F" CONNECTOR</b>                                  |  |          |      |
| 552220  | Domestic Amplifier 1i/(2o+TV) "F": 47...694MHz G 20dB<br>Vo 110dBµV + Output TV Outlet G 12dB (Blister T1)   | LTE700   | 1    |
| 552240  | Domestic Amplifier 1i/(2o+TV) "F": 47...790MHz G 20dB<br>Vo 106dBµV + Output to a TV Outlet G 12dB (Blister T1)  | LTE790   | 8    |
| 5523  | Domestic Amplifier 1i/(4o+TV) "F": 47...862MHz G 16dB<br>Vo 102dBµV + Output to a TV Outlet G 11dB (Blister T1)  |          | 8    |
| 552340  | Domestic Amplifier 1i/(4o+TV) "F": 47...790MHz G 16dB<br>Vo 102dBµV + Output to a TV Outlet G 11dB (Blister T1)  | LTE790   | 8    |
| 5531  | Domestic Amplifier 1i/6o "F": 47...862MHz G 16dB Vo 103dBµV (Blister T1)   |          | 8    |
| ★ 545801  | Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/782MHz G 20dB<br>Vo 101dBµV Auto-Adjustment + Output to a TV Outlet G 11dB + Preamplifier Powering 12V-100mA (Blister T1) | AUTO LTE | 8    |
| ★ 545901  | Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/782MHz G 20dB<br>Vo 101dBµV w/USOS + Output to a TV Outlet G 11dB + Preamplifier Powering 12V-100mA                       | AUTO LTE | 1    |
| <b>SMATV DOMESTIC AMPLIFIERS (47...2150MHz)</b>       |  |          |      |
| <b>"EasyF" CONNECTOR: PICOKOM SERIES</b>              |  |          |      |
| 560601  | PicoKom Domestic Amplif. 1i/2o "EasyF": 47...862/950..2150MHz<br>G 15/23dB Vo 97/106dBµV AGC +Preamplifier Powering 12V-160mA  |          | 1/10 |
| <b>"F" CONNECTOR</b>                                  |  |          |      |
| 5530  | Domestic Amplifier 1i/(2o+TV) "F" 5..30/47..862/950..2150MHz<br>G(-9)/18/20dB Vo 105/110dBµV +Output TV Outlet G(-16)/10/12dB (Blister T1)                                     |          | 8    |
| <b>CATV DOMESTIC AMPLIFIERS (5...862MHz)</b>          |  |          |      |
| <b>"F" CONNECTOR</b>                                  |  |          |      |
| 5520  | Domestic Amplifier 1i/(2o+TV) "F": 5..65/87.5..862MHz<br>G -7/20dB Vo107dBµV +Output TV Outlet G13dB (Passive Return)  |          | 8    |
| 5525  | Domestic Amplifier 1i/(2o+TV) "F" 5..65/87.5..862MHz G -7/18dB<br>Vo106dBµV + Output TV Outlet G 12dB (Passive Ret.+ Equaliser)  |          | 8    |
| 5526  | Domestic Amplifier 1i/(2o+TV) "F": 5..65/87.5..862MHz<br>G 9/20dB Vo 107dBµV +Output TV Outlet G13dB (Active Return)   |          | 8    |
| 553301  | Domestic Amplifier 1i/1o "F": 5..30/47..862MHz G -2/24dB<br>Vo 112dBµV (Passive Ret.+ Equaliser)   |          | 8    |
| 553501  | Domestic Amplifier 1i/1o "F": 5..30/47..862MHz G -2/34dB<br>Vo 112dBµV (Passive Ret.+ Equaliser)   |          | 8    |
| <b>SKY PASS AMPLIFIERS</b>                            |  |          |      |
| <b>"F" CONNECTOR</b>                                  |  |          |      |
| 5517  | Domestic Amplifier 2i/4o "F": 47..232-5..30/470..862MHz<br>G 16-6/16dB Vo 108-110/105dBµV 11V-10mA Sky Power. (UK Plug) <sup>(1)</sup>   |          | 1/5  |

## AUTO-LTE FILTERING

The amplifier is able to automatically switch the LTE filter on to filter channels from 48 (LTE700) to 60 (LTE790) depending on the scenario.



### Ref. 545801

Plug and Play due to its automatic gain control (AGC)

### Ref. 545901

Equipped with USOS (User Selectable Output Signal) technology: the installer selects the desired output level, which remains stable. The device automatically adjusts gain according to the input signal variation.

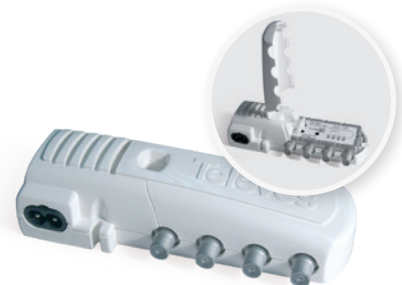
**easyF**



▲ Domestic Amplifier: PicoKom Series  
(90 x 68 x 28 mm)



▲ Domestic Amplifier: "IEC" Connector  
(145 x 35 x 45 mm)



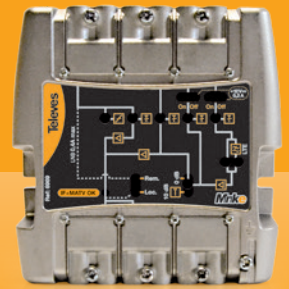
▲ Domestic Amplifier: "F" Connector  
(145 x 35 x 45 mm)

(1) Variable gain in UHF and VHF with detachable main lead.

**AMPLIFICATION**

| Ref.  | Description  |               |
|---|--|---------------|
| <b>LAUNCH AMPLIFIERS: MINIKOM "EasyF" SERIES</b>                |  | <b>LTE790</b> |
| <b>TERRESTRIAL - MATV</b>                                       |  |               |
| 562501  | MiniKom Amplifier MATV 3i/1o "EasyF": FM-VHF-UHF<br>G 15-[22  32]-[30  40]dB Vo 113-114-117dB $\mu$ V<br>Preamplif.Powering 12V-200mA (Switchable DC Pass)                                 | 1             |
| 562401  | MiniKom Amplifier MATV 4i/1o "EasyF": FM-VHF-UHF-UHF<br>G 15-[22  32]-[26  36]-[26  36]dB Vo 113-114-117-117dB $\mu$ V<br>Preamplif.Powering 12V-200mA (Switchable DC Pass)                | 1             |
| 562301  | MiniKom Amplifier 5i/1o "EasyF": FM-V-U-21..35-39..60<br>G 15-[22  32]-[26  36]-[24  34]-[24  34]dB Vo113-114-117-117dB $\mu$ V<br>Preamp.Powering 12V-200mA (Switchable DC Pass)          | 1             |
| 562302  | MiniKom Amplifier 5i/1o "EasyF": FM-V-U-21..32-36..60<br>G 15-[22  32]-[26  36]-[24  34]-[24  34]dB Vo113-114-117-117dB $\mu$ V<br>Preamp.Powering 12V-200mA (Switchable DC Pass)          | 1             |
| <b>TERRESTRIAL + SATELLITE - SMATV</b>                          |  |               |
| 562601  | MiniKom Amplifier MATV+SAT 4i/1o "EasyF": FM-VHF-UHF-SAT<br>G 15-[21  31]-[27  37]-35dB Vo 114-114-115-119dB $\mu$ V<br>Preamplif.Powering 12V-200mA (Switchable DC Pass)                  | 1             |
| 562201  | MiniKom Amplifier MATV+SAT 5i/1o "EasyF": FM-VHF-UHF-UHF-SAT<br>G 15-[21  31]-[24  34]-[24  34]-35dB Vo 114-114-115-115-119dB $\mu$ V<br>Preamplif.Powering 12V-200mA (Switchable DC Pass) | 1             |
| <b>LAUNCH AMPLIFIERS: MINIKOM "F" SERIES</b>                    |  |               |
| <b>TERRESTRIAL - MATV: LINE</b>                                 |  |               |
| 537302  | MiniKom Amplifier MATV 1i/1o "F": 47...454/470...862MHz<br>G [20  30]/[27  37]dB Vo 114/116dB $\mu$ V  | 1             |
| <b>TERRESTRIAL - MATV</b>                                       |  |               |
| 539201  | MiniKom Amplifier MATV 4i/1o "F": FM-BIII/DAB-UHF-UHF<br>G 15-[20  30]-[27  37]-[27  37]dB Vo 114-114-117-117dB $\mu$ V<br>12V-70mA Preamp.Pow.  | 1             |
| <b>RETURN PATH + TERRESTRIAL + SATELLITE - SMATV/CATV: LINE</b> |  |               |
| 531710  | MiniKom Amplifier Return Path + MATV + SAT 1i/1o "F": 5..30/47..862/950..2150MHz<br>G -5/30/33..38dB Vo (MATV/SAT) 114/123dB $\mu$ V   | 1             |
| <b>RETURN PATH + TERRESTRIAL + SATELLITE - SMATV/CATV</b>       |  |               |
| 5317  | MiniKom Amplifier Return Path + MATV + 2SAT 2i/2o "F":<br>[5..30/47..862/950..2150]-[950..2150]MHz<br>G (for 2 outputs) -5/30/33..38dB Vo (MATV/SAT) 114/123dB $\mu$ V                     | 1             |
| <b>TERRESTRIAL + SATELLITE - SMATV</b>                          |  |               |
| 5396  | MiniKom Amplifier MATV + SAT 4i/1o "F": BI/FM-BIII-UHF-FI<br>G 33/20-35-40-35...42dB Vo 112-112-115-121dB $\mu$ V<br>12V-70mA Preamplif.Pow.   | 1             |
| 5363  | MiniKom Amplifier MATV + SAT 2i/1o "F":<br>[47...862]-[950...2150]MHz G -1.5-35..45dB Vo(SAT) 124dB $\mu$ V  | 1             |
| 536310  | MiniKom Amplifier MATV + SAT 2i/1o "F":<br>[47...862]-[950...2150]MHz G -1.5-35..45dB Vo(SAT) 124dB $\mu$ V (110Vac & US Plug)   | 1             |
| <b>SKY PASS - TERRESTRIAL - MATV</b>                            |  |               |
| 5372  | MiniKom Amplifier Return Path + MATV 2i/(7+1)o "F":<br>FM/VHF-5..7MHz/UHF G 5-0.5/15dB Vo 89-108/89dB $\mu$ V<br>(+1@16-15/27dB) 12V 30/10mA Preamplif./IR Powering (UK Plug)              | 1             |

**MINIKOM EasyF SERIES**



▲ Amplifiers  
(Dimensions: 100 x 100 x 50 mm)

High efficiency launch / splitband amplifiers, with selectable gain and LTE rejection.

[en.televes.com/minikom](http://en.televes.com/minikom)



▲ Domestic Amplifier: "F" Connectors  
(145 x 35 x 45 mm)

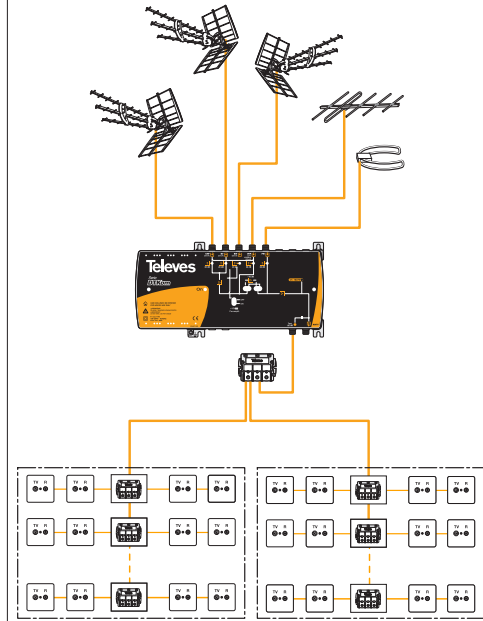


▲ Amplifiers: MiniKom "F" Series  
(185 x 112 x 70 mm)

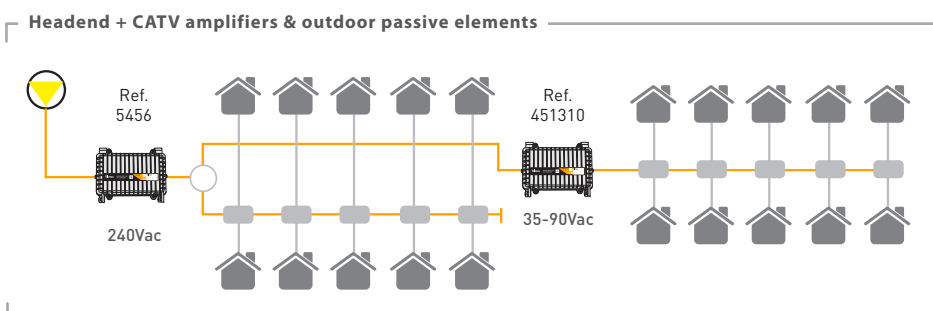
| Ref.  | Description  |        |   |
|---|--|--------|---|
| <b>LAUNCH AMPLIFIERS: DTKOM SERIES</b>                          |  |        |   |
| <b>TERRESTRIAL - MATV: LINE</b>                                 |  |        |   |
| 5338  | DTKom Amplifier MATV 1i/1o "F": 47...862MHz G (41  53)dB Vo 123dB $\mu$ V (Remote Powering)  |        | 1 |
| <b>TERRESTRIAL - MATV</b>                                       |  |        |   |
| 534040  | DTKom Amplifier MATV 3i/1o "F": FM-BIII-UHF G (21  25)-(36  44)-(45  55)dB Vo 123dB $\mu$ V 12V-50mA Preamplif. Powering   | LTE790 | 1 |
| 5341  | DTKom Amplifier MATV 5i/1o "F": BI/FM-BIII-21..36-38..69-UHF G (31  39)/(21  25)-(36  44)-(39  48)-(40  50)-(40  50)dB Vo 123dB $\mu$ V 12V-50mA Preamplif. Powering |        | 1 |
| 534140  | DTKom Amplifier MATV 5i/1o "F": FM-BIII-21..35-38..60-UHF G (21  25)-(36  44)-(40  50)-(42  52)-(42  52)dB Vo 123dB $\mu$ V 12V-50mA Preamplif. Powering             | LTE790 | 1 |
| 534141  | DTKom Amplifier MATV 5i/1o "F": FM-BIII-21..32-36..60-UHF G (21  25)-(36  44)-(40  50)-(42  52)-(42  52)dB Vo 123dB $\mu$ V 12V-50mA Preamplif. Powering             | LTE790 | 1 |
| 4508  | DTKom Amplifier MATV 4i/1o "F": FM-VHF-UHF-UHF G 30-(32  45)-(40  52)-(40  52)dB Vo 129dB $\mu$ V 12V-70mA Preamplif. Powering                                       |        | 1 |
| 4509  | DTKom Amplifier 5i/1o "F": FM-VHF-21..35-39..69-UHF G 30-(32  45)-(38  50)-(38  50)-(40  52)dB Vo 129dB $\mu$ V 12V-70mA Preamplif. Powering                         |        | 1 |
| <b>RETURN PATH + TERRESTRIAL + SATELLITE - SMATV/CATV: LINE</b> |  |        |   |
| 533501  | DTKom Amplifier Return Path + MATV + SAT 1i/1o "F": 5..65/87..862/950...2150MHz G 20/(40  53)/42dB Vo 115/124/121dB $\mu$ V  |        | 1 |
| 5337  | DTKom Amplifier Return Path + MATV + 2SAT 2i/2o "F": (5..30/47..862/950..2150MHz) - (950..2150MHz) G (for 2 outputs) (-5  28)/(30  40)/40dB Vo 115/120/120dB $\mu$ V |        | 1 |
| <b>RETURN PATH + TERRESTRIAL - CATV: LINE</b>                   |  |        |   |
| 451203  | DTKom Amplifier Return Path + MATV 1i/1o "F": 5...65/87...1006MHz G 28/(30  40)dB Vo 118/129dB $\mu$ V   |        | 1 |
| <b>AMPLIFIERS: OUTDOOR SERIES</b>                               |  |        |   |
| <b>RETURN PATH + TERRESTRIAL - CATV</b>                         |  |        |   |
| 451310  | Outdoor Amplifier Return Path + MATV 35...90Vac Powered 1i/1o 5/8": 5...65/87...1006MHz G (-  28)/(30  40)dB Vo 128/118dB $\mu$ V (Passive/Active Return Path)       |        | 1 |
| 5456  | Outdoor Power Supply Unit 57Vac - 5A   |        | 1 |
| <b>AMPLIFIERS: MICROKOM SERIES</b>                              |  |        |   |
| <b>FIXED RETURN PATH AMPLIFIERS</b>                             |  |        |   |
| 534211  | MicroKom Amplifier Return Path + MATV 1i/1o "F": 5...65/85...1006MHz G (-  20)/(20  25)dB Vo 118/121 dB $\mu$ V  |        | 1 |
| 534411  | MicroKom Amplifier Return Path + MATV 1i/1o "F": 5...65/85...1006MHz G (-  20)/(28  35)dB Vo 118/121 dB $\mu$ V  |        | 1 |



▲ Amplifiers: DTKom Series (284 x 140 x 50 mm)



▲ Amplifiers: MicroKom Series (190 x 88 x 35 mm)



▲ Amplifiers: Outdoor Series (290 x 220 x 100 mm)



AMPLIFICATION

| Ref.  | Description   |                 |
|---|---|-----------------|
| <b>PROGRAMMABLE AMPLIFICATION: AVANT SERIES</b> |   |                 |
| <b>AVANT X <sup>(1)</sup></b>                   |   | <b>AUTO LTE</b> |
| ★ 532101  | Avant X Basic with Auto-LTE: Programmable Amplifier with Digital Processing/Filtering (32 Filters)<br>5i/1o "F": FM-4xVHF/UHF G 29-75dB Vo 122-122dBμV (DVB-T/T2 Compatible)  | 1               |
| ★ 532111  | Avant X Basic-Sat with Auto-LTE: Programmable Amplifier with Digital Processing/Filtering (32 Filters)<br>6i/2o "F": FM-4xVHF/UHF-SAT G 25-71-41dB Vo 118-118-123dBμV (DVB-T/T2 Compatible)   | 1               |
| ★ 532121  | Avant X Pro with Auto-LTE: Programmable Amplifier with Digital Processing/Filtering (32 Filters)<br>5i/1o "F": FM-4xVHF/UHF G 29-75dB Vo 122-122dBμV (DVB-T/T2 Compatible)<br>With Autoprogramming, Monitoring and Report Generation                | 1               |
| ★ 532131  | Avant X Pro-Sat with Auto-LTE: Programmable Amplifier with Digital Processing/Filtering (32 Filters)<br>6i/2o "F": FM-4xVHF/UHF-SAT G 25-71-41dB Vo 118-118-123dBμV (DVB-T/T2 Compatible)<br>With Autoprogramming, Monitoring and Report Generation | 1               |
| <b>ACCESSORIES</b>                              |   |                 |
| 7234  | Universal Programmer T.OX/T05/AVANT   | 1               |
| 5750  | Cabinet for Headend Amplifier 440x440x140mm   | 1               |
| 400610  | Line Amplifier UHF 1i/1o "F": 470...790MHz G 13dB Vo 98dBμV (Plug-in)   | 1/10            |
| 4007  | Notch Filter "F" UHF (Ch21-69) 1 Channel & 1 Adjustment   | 1/10            |
| 4162  | Notch Filter "IEC" BI/FM/BIII/UHF 2 Channels & 2 Adjustments  | 1/10            |
| 4947  | Coaxial Atmospheric Surge Arrestor 90V 0...3GHz   | 1/20            |
| 4061  | Terminal Load "F" 750hm with DC Blocked   | 10/200          |

CHOOSE THE PROGRAMMING MODE YOU WISH....



A SIMPLE AND INTUITIVE APPLICATION FOR ANDROID AND PC USB connection (OTG cable)



INTELLIGENT AUTOMATIC PROGRAMMING WITH ONLY A BUTTON (Only in PRO versions)



WITH OUR CLASSIC UNIVERSAL PROGRAMMER (Ref.7234 not included)

(1) OTG cable for an ASuite programming included in all the AVANT X versions.



AVANT X PROGRAMMABLE HEADEND AMPLIFIER DIGITAL FILTERING AND PROCESSING

A NEW EVOLUTIVE STAGE

DIGITAL PROCESSING TECHNOLOGY IMPLEMENTED ON TERRESTRIAL TV SIGNALS



Setting the internal filters according to the type of signal LTE (4G/5G)



Compatible with DVB-T DVB-T2

TERFORCE TECHNOLOGY Terrestrial signal level always stable and adapted to its optimum value



UP TO 32 INDIVIDUALLY PROGRAMMABLE FILTERS Single channel digital filtering, even for adjacent channels



DIGITAL PROCESSING OF CHANNELS Output channels can be frequency shifted



AUTOMATIC SIGNAL ADJUSTMENT IN EACH FILTER (AGC) And output signal manual regulation



UHF/VHF DIGITAL FILTERS WITH HIGH SELECTIVITY 30dB rejection (@ 1MHz)

| Ref.                                | Description   |                   |
|-------------------------------------|---|-------------------|
| <b>T12 SERIES</b>                   |   |                   |
| <b>SINGLE CHANNEL AMPLIFICATION</b> |   |                   |
| 508212                              | T12 Single Channel Amplifier FM 88..108MHz G 35dB Vo 114dB $\mu$ V                                    | 1                 |
| 508712                              | T12 Single Channel Amplifier S-Low Band 104...174MHz G 58dB Vo 125dB $\mu$ V                          | 1                 |
| 508312                              | T12 Single Channel Amplifier BIII 174...230MHz G 45dB Vo 123dB $\mu$ V                                | 1                 |
| 509912                              | T12 Single Channel Amplifier DAB 195..232MHz G45dB Vo114dB $\mu$ V                                    | 1                 |
| 508812                              | T12 Single Channel Amplifier S-High Band 230...300MHz G 58dB Vo 124dB $\mu$ V                         | 1                 |
| 508912                              | T12 Single Channel Amplifier HyperBand 302...470MHz G 58dB Vo 125dB $\mu$ V                           | 1                 |
| 508612                              | T12 Single/Multi Channel Amplifier UHF DTT 470...862MHz<br>G 50dB Vo 125dB $\mu$ V (Up to 5 Channels) | LTE700 / LTE790 1 |
| 509812                              | T12 Single Channel Amplifier High Selectivity<br>UHF 470...862MHz G 55dB Vo 125dB $\mu$ V             | LTE700 / LTE790 1 |
| 508012                              | T12 Amplifier SAT 950...2150MHz G 35...50dB Vo 124dB $\mu$ V  | 1                 |
| <b>POWER SUPPLY UNITS</b>           |   |                   |
| 549812                              | T12 Switch-mode Power Supply Unit 60W 24V-2.5A  | 1                 |
| <b>SUPPORTS &amp; ENCLOSURES</b>    |   |                   |
| 5071                                | Wall Mount 498mm (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>                        | 1                 |
| 5239                                | Wall Mount 560mm (1 PSU + 8 T.OX Modules or 12 T12/T05 Modules) <sup>(1)</sup>                        | 1                 |
| 5301                                | 19" Rack Frame 484mm 5RU (1 PSU + 7 T.OX Modules or 10 T12/T05 Modules) <sup>(1)</sup>                | 1                 |
| 5072                                | Lockable Cabinet 498mm (1 PSU + 10 Modules T12/T05) <sup>(1)</sup>                                    | 1                 |
| 5069                                | Lockable Cabinet 648mm (1 PSU + 14 T12/T05 Modules) <sup>(1)</sup>                                    | 1                 |
| 5333                                | 19" Rack Cabinet 15RU. Ventilation, Wheels, Glazed Door   | 1                 |
| ★ 507204                            | Lockable Cabinet with Forced Ventilation 327mm (1 PSU + 4 T.OX Modules)                               | 1                 |
| <b>ACCESSORIES</b>                  |   |                   |
| 400610                              | Line Amplifier UHF 1i71o "F": 470...790MHz G 13dB Vo 98dB $\mu$ V (Plug-in)                           | 1/10              |
| 4007                                | Notch Filter "F" UHF (C21-69) 1 Channel & 1 Adjustment  | 1/10              |
| 4162                                | Notch Filter BI/FM/BIII/UHF 2 Channels & 2 Adjustments "IEC"  | 1/10              |
| 5165                                | Adjustable Attenuator "IEC" 0 to 20dB 40..860MHz DC Pass  | 10                |
| 4005                                | Adjustable Attenuator "F" 0 to 20dB 5...2200MHz DC Pass   | 1/10              |
| 507312                              | T12/T05 Blank Plate 35mm - 5RU  | 1                 |
| 5074                                | T12 "F" Connector Link Push Fit Type, 48mm  | 10                |
| 4061                                | Terminal Load "F" 75Ohm with DC Blocked   | 10/200            |
| 4071                                | DC Blocker "F"  | 10                |
| 4947                                | Coaxial Atmospheric Surge Arrestor 90V 0...3GHz   | 1/20              |



▲ 509812

▲ 549812



▲ 5301

▲ 549812



▲ 5072



▲ 5069



▲ 400610



▲ 4162



▲ 4071

(1) The number of modules indicated is based solely on the available space; but the number of installable modules may be limited by other restrictions as consumption or temperature.

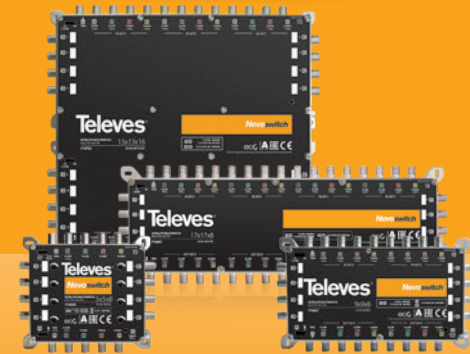
# MULTISWITCHES

| Ref.   | Description  |    |
|--|--|----|
| <b>NEVOSWITCH SERIES: STAND ALONE &amp; CASCADE MULTISWITCHES</b>                      |  |    |
| <b>5 INPUTS (1 SATELLITE + TERRESTRIAL)</b>  |  |    |
| 714501   | Multiswitch 5x5x4 "F" Terminal/Cascade   | 1  |
| 714502   | Multiswitch 5x5x6 "F" Terminal/Cascade   | 1  |
| 714503   | Multiswitch 5x5x8 "F" Terminal/Cascade   | 1  |
| 714504   | Multiswitch 5x5x12 "F" Terminal/Cascade  | 1  |
| 714505   | Multiswitch 5x5x16 "F" Terminal/Cascade  | 1  |
| 714506   | Multiswitch 5x5x24 "F" Terminal/Cascade  | 1  |
| 714507   | Multiswitch 5x5x32 "F" Terminal/Cascade  | 1  |
| 714508   | Amplifier 5x5 "F" MATV/IF G 12/15dB Vo 110dBμV   | 1  |
| 714509   | Amplifier 5x5 "F" MATV/IF G 27/25dB Vo 110dBμV   | 1  |
| 714906   | Tap 5x5x5 "F" 8dB  | 1  |
| 714901   | Tap 5x5x5 "F" 12dB   | 1  |
| 714902   | Tap 5x5x5 "F" 15dB   | 1  |
| 714903   | Tap 5x5x5 "F" 20dB   | 1  |
| 714904   | Tap 5x5x5 "F" 25dB   | 1  |
| 714905   | Splitter 5x5x5 4/4dB   | 1  |
| <b>5 INPUTS (1 SATELLITE + TERRESTRIAL) - QUAD COMPATIBLE</b>                          |  |    |
| 714402   | Quad Compatible Multiswitch 5x5x6 "F" Terminal/Cascade (12V-0.8A PSU included)         | 1  |
| 714403   | Quad Compatible Multiswitch 5x5x8 "F" Terminal/Cascade (12V-0.8A PSU included)         | 1  |
| 714404   | Quad Compatible Multiswitch 5x5x12 "F" Terminal/Cascade (12V-0.8A PSU included)        | 1  |
| 714405   | Quad Compatible Multiswitch 5x5x16 "F" Terminal/Cascade (12V-0.8A PSU included)        | 1  |
| <b>5 INPUTS (1 SATELLITE + PASSIVE TERRESTRIAL)</b>                                    |  |    |
| 714303   | Multiswitch 5x5x8 "F" Terminal/Cascade, Passive Terrestrial                            | 10 |
| 714304   | Multiswitch 5x5x12 "F" Terminal/Cascade, Passive Terrestrial                           | 1  |
| 714305   | Multiswitch 5x5x16 "F" Terminal/Cascade, Passive Terrestrial                           | 1  |
| <b>5 INPUTS (1 SATELLITE + TERRESTRIAL) - dCSS TECHNOLOGY, MULTICHOICE COMPATIBLE </b> |  |    |
| 714121   | dCSS Multiswitch 5x5x2 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial | 1  |
| 714122   | dCSS Multiswitch 5x5x4 "F" Terminal/Cascade, Switchable Adjustable/Passive Terrestrial | 1  |
| <b>9 INPUTS (2 SATELLITES + TERRESTRIAL)</b>   |  |    |
| 714601   | Multiswitch 9x9x8 "F" Terminal/Cascade   | 1  |
| 714602   | Multiswitch 9x9x12 "F" Terminal/Cascade  | 1  |
| 714603   | Multiswitch 9x9x16 "F" Terminal/Cascade  | 1  |
| 714604   | Multiswitch 9x9x24 "F" Terminal/Cascade  | 1  |
| 714605   | Multiswitch 9x9x32 "F" Terminal/Cascade  | 1  |
| 714609   | Amplifier 9x9 "F" Ret.P/MATV/IF G -27/25dB Vo 110dBμV                                  | 1  |
| <b>9 INPUTS (2 SATELLITES + TERRESTRIAL) - QUAD COMPATIBLE</b>                         |  |    |
| 714241   | Quad Compatible Multiswitch 9x9x8 "F" Terminal/Cascade                                 | 1  |
| 714242   | Quad Compatible Multiswitch 9x9x12 "F" Terminal/Cascade                                | 1  |
| 714243   | Quad Compatible Multiswitch 9x9x16 "F" Terminal/Cascade                                | 1  |
| 714244   | Quad Compatible Multiswitch 9x9x24 "F" Terminal/Cascade                                | 1  |
| 714245   | Quad Compatible Multiswitch 9x9x32 "F" Terminal/Cascade                                | 1  |



▲ 714241

## NEVOSWITCH SERIES



Scalable multiswitches range, european design, manufacturing and quality.

[en.televés.com/nevoswitch](https://en.televés.com/nevoswitch)

THE NEW AND INNOVATIVE NEVOSWITCH IMPLEMENTING **dCSS TECHNOLOGY**, WITH **DCFLEX FUNCIONALITY**



DCFLEX gives complete flexibility when choosing how to power the dCSS NevoSwitch to suit any installation scenario. This versatility is achieved by a toggle switch that can isolate the multiswitch from the cascade's DC power configuration.

[en.televés.com/dcssnevoswitch](https://en.televés.com/dcssnevoswitch)



▲ 714602



| Ref. | Description |  |
|------|-------------|--|
|------|-------------|--|

### NEVOSWITCH SERIES: STAND ALONE & CASCADE MULTISWITCHES

#### 13 INPUTS (3 SATELLITES + TERRESTRIAL)

|        |  |   |
|--------|--|---|
| 714701 | Multiswitch 13x13x8 "F" Terminal/Cascade                       | 1 |
| 714702 | Multiswitch 13x13x12 "F" Terminal/Cascade                      | 1 |
| 714703 | Multiswitch 13x13x16 "F" Terminal/Cascade                      | 1 |
| 714704 | Multiswitch 13x13x24 "F" Terminal/Cascade                      | 1 |
| 714705 | Multiswitch 13x13x32 "F" Terminal/Cascade                      | 1 |
| 714709 | Amplifier 13x13 "F" Ret.P/MATV/IF G -/27/25dB Vo 110dB $\mu$ V | 1 |

#### 17 INPUTS (4 SATELLITES + TERRESTRIAL)

|        |  |   |
|--------|--|---|
| 714801 | Multiswitch 17x17x8 "F" Terminal/Cascade                       | 1 |
| 714802 | Multiswitch 17x17x12 "F" Terminal/Cascade                      | 1 |
| 714803 | Multiswitch 17x17x16 "F" Terminal/Cascade                      | 1 |
| 714804 | Multiswitch 17x17x24 "F" Terminal/Cascade                      | 1 |
| 714805 | Multiswitch 17x17x32 "F" Terminal/Cascade                      | 1 |
| 714809 | Amplifier 17x17 "F" Ret.P/MATV/IF G -/27/25dB Vo 110dB $\mu$ V | 1 |

#### POWER SUPPLY UNITS

|        |  |   |
|--------|--|---|
| 732101 | Power Supply Unit 12V-0.8A                 | 1 |
| 732210 | Power Supply Unit 12V-1.5A (UK plug)       | 1 |
| 732802 | Power Supply Unit 12.5V-2.8A               | 1 |
| 732001 | Power Supply Unit 18V-2A (NevoSwitch dCSS) | 1 |

#### ACCESSORIES

|        |  |        |
|--------|--|--------|
| 993810 | Earth Bonding Bar 4 Connectors (9x/13x/17x NevoSwitch compatible)    | 1      |
| 993811 | Earth Bonding Bar 5 Connectors (5x/9x/13x/17x NevoSwitch compatible) | 1      |
| 3821   | Adapter "Quick F" Male - "F" Male, Plastic Box                       | 50/500 |

#### EASYSWITCH SERIES

|        |   |   |
|--------|---|---|
| 719001 | Multiswitch 5x5x4 "EasyF" Terminal/Cascade (Adjustable Attenuator)  | 1 |
| 719101 | Amplifier 5x5 "EasyF" MATV/SAT G 14/28dB Vo 111/110dB $\mu$ V w/AGC | 1 |

#### CABINETS

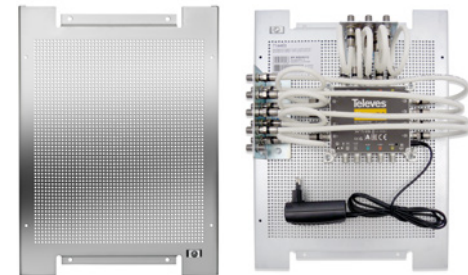
|        |  |   |
|--------|--|---|
| 5894   | Perforated Mounting Plate 300x400mm, Distance from the wall 19mm       | 1 |
| 589401 | Perforated Mounting Plate 400x400mm, Distance from the wall 19mm       | 1 |
| 589402 | Perforated Mounting Plate 400x600mm, Distance from the wall 19mm       | 1 |
| 5893   | Indoor Lockable Cabinet with Mounting Plate, Dimensions: 300x400x200mm | 1 |
| 589301 | Indoor Lockable Cabinet with Mounting Plate, Dimensions: 400x400x200mm | 1 |
| 589302 | Indoor Lockable Cabinet with Mounting Plate, Dimensions: 400x600x200mm | 1 |
| 589303 | Indoor Lockable Cabinet with Mounting Plate, Dimensions: 600x600x200mm | 1 |
| 589304 | Indoor Lockable Cabinet with Mounting Plate, Dimensions: 600x800x200mm | 1 |
| 5749   | Outdoor Lockable Cabinet (IP66 Standard), Dimensions: 600x380x210mm    | 1 |



▲ 714801

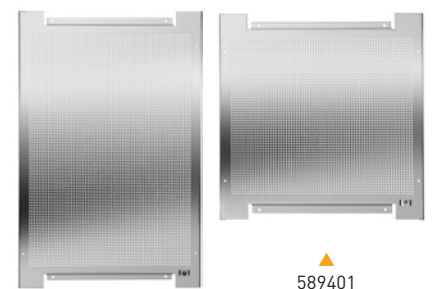


▼ 719001



▲ 5894

▲ Mounting with ref. 5894



▲ 589401

▲ 589402



▲ 5749



▲ 993810

▲ 993811



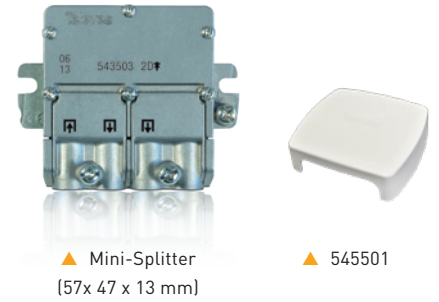
▼ 732201



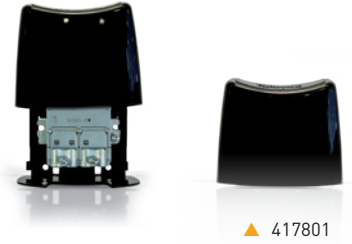
▲ 5893



| Ref.                                    | Description   |          |        |
|---|---|----------|--------|
| <b>SPLITTERS WITH "EasyF" CONNECTOR</b> |   |          |        |
| <b>5...2400MHz</b>                      |   |          |        |
| 543503                                  | Mini-Splitter 5...2400MHz "EasyF" 2W 4.3/4dB Indoor DC Pass 0-I                                     |          | 10     |
| 543603                                  | Mini-Splitter 5...2400MHz "EasyF" 3W 8.5/7.5dB Indoor DC Pass 0-I                                   |          | 10     |
| 543702                                  | Splitter 5...2400MHz "EasyF" 4W 9/7.5dB Indoor DC Pass 0-I  |          | 10     |
| 543802                                  | Splitter 5...2400MHz "EasyF" 5W 10/9.5dB Indoor DC Pass 0-I   |          | 10     |
| 5469                                    | Splitter 5...2400MHz "EasyF" 6W 11/14dB Indoor DC Pass 0-I  |          | 6      |
| 5489                                    | Splitter 5...2400MHz "EasyF" 8W 14/16dB Indoor DC Pass 0-I  |          | 6      |
| 434103                                  | Mini-Splitter 5...2400MHz "EasyF" 2W 4.3/4dB DC Pass 0-I<br>With Outdoor Mounting Case (Blister T1) | <b>B</b> | 10     |
| 434202                                  | Splitter 5...2400MHz "EasyF" 4W 9/7dB DC Pass 0-I<br>With Outdoor Mounting Case (Blister T1)        | <b>B</b> | 8      |
| <b>ACCESSORIES</b>                      |   |          |        |
| 545510                                  | Face Plate for Mini Series White 62x56x18mm   | <b>W</b> | 10     |
| 417801                                  | Outdoor Case Black Model for Mini Series<br>Dimensions: External 88x78x39mm Internal 57x47x13mm     | <b>B</b> | 1/10   |
| 545501                                  | Face Plate White 93x74x21mm   | <b>W</b> | 10     |
| 4177                                    | Outdoor Case Black Small Model<br>Dimensions: External 113x88x35mm Internal 92x66x27mm              | <b>B</b> | 1/5    |
| 4163                                    | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm             | <b>G</b> | 1/5    |
| 4087                                    | Terminal Load "EasyF" 750hm with DC Blocked   |          | 25     |
| 408701                                  | Terminal Load "EasyF" 750hm with DC Blocked, Plastic Box  |          | 100    |
| <b>SPLITTERS WITH "F" CONNECTOR</b>     |   |          |        |
| <b>5...2400MHz</b>                      |   |          |        |
| 5150                                    | Splitter 5...2400MHz "F" 2W 4/5dB Indoor  |          | 1/10   |
| 5151                                    | Splitter 5...2400MHz "F" 3W 7/9dB Indoor  |          | 1/10   |
| 5152                                    | Splitter 5...2400MHz "F" 4W 8/10dB Indoor   |          | 1/10   |
| 5153                                    | Splitter 5...2400MHz "F" 5W 10/12dB Indoor  |          | 1/10   |
| 7441                                    | Splitter 5...2400MHz "F" 6W 11/14dB Indoor  |          | 1/10   |
| 7406                                    | Splitter 5...2400MHz "F" 8W 12/15dB Indoor  |          | 1/10   |
| 5155                                    | Splitter 5...2400MHz "F" 2W 4/5dB Indoor DC Pass All  |          | 1/10   |
| 5156                                    | Splitter 5...2400MHz "F" 4W 7.5/10dB Indoor DC Pass All   |          | 1/10   |
| 5157                                    | Splitter 5...2400MHz "F" 5W 10/12dB Indoor DC Pass All  |          | 1/10   |
| 5158                                    | Splitter 5...2400MHz "F" 6W 10/12dB Indoor DC Pass All  |          | 1/10   |
| 5159                                    | Splitter 5...2400MHz "F" 8W 11/14dB Indoor DC Pass All  |          | 1/10   |
| 7402                                    | Splitter 950...2150MHz "F" 8W 1...4dB Indoor Active   |          | 1      |
| <b>5...1218MHz - DOCSIS 3.1</b>         |   |          |        |
| ★ 453003                                | Splitter 5...1218MHz "F" 2W 4dB Indoor  |          | 1/10   |
| ★ 453203                                | Splitter 5...1218MHz "F" 3W 6dB Indoor  |          | 1/10   |
| ★ 453103                                | Splitter 5...1218MHz "F" 4W 8dB Indoor  |          | 1/10   |
| ★ 453403                                | Splitter 5...1218MHz "F" 6W 10dB Indoor   |          | 1/10   |
| ★ 453303                                | Splitter 5...1218MHz "F" 8W 11dB Indoor   |          | 1/10   |
| <b>ACCESSORIES</b>                      |   |          |        |
| 545501                                  | Face Plate White 93x74x21mm   | <b>W</b> | 10     |
| 4177                                    | Outdoor Case Black Small Model<br>Dimensions: External 113x88x35mm Internal 92x66x27mm              | <b>B</b> | 1/5    |
| 4163                                    | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm             | <b>G</b> | 1/5    |
| 4061                                    | Terminal Load "F" 750hm with DC Blocked   |          | 10/200 |
| 4058                                    | Terminal Load "F" 750hm without DC Blocked  |          | 10/200 |
| 405802                                  | Terminal Load "F" 750hm without DC Blocked, Plastic Box   |          | 100    |



BLACK OUTDOOR CASE FOR MINI SERIES



| Ref.   | Description   |     |      |
|--|---|-----|------|
| <b>SPLITTERS WITH 5/8" CONNECTOR (OUTDOOR)</b> |   |     |      |
| <b>5...1000MHz</b>                             |   |     |      |
| 4622   | Splitter 5...1000MHz 5/8" 2W 6dB Outdoor  |     | 1    |
| 4623   | Splitter 5...1000MHz 5/8" 3W 10dB Outdoor   |     | 1    |
| <b>TAPS WITH "EasyF" CONNECTOR</b>             |   |     |      |
| <b>5...2400MHz</b>                             |   |     |      |
| 542503   | Mini-Tap 5...2400MHz "EasyF" 2W 12dB Indoor DC Pass I-O (TA - Floor 1)                          |     | 10   |
| 542603   | Mini-Tap 5...2400MHz "EasyF" 2W 16dB Indoor DC Pass I-O (A - Floors 2 & 3)                      |     | 10   |
| 542703   | Mini-Tap 5...2400MHz "EasyF" 2W 21dB Indoor DC Pass I-O (B - Floors 4...6)                      |     | 10   |
| 542803   | Mini-Tap 5...2400MHz "EasyF" 2W 25dB Indoor DC Pass I-O (C - Floors 7...12)                     |     | 10   |
| 544402   | Tap 5...2400MHz "EasyF" 4W 12dB Indoor DC Pass I-O (TA - Floor 1)                               |     | 10   |
| 544502   | Tap 5...2400MHz "EasyF" 4W 16dB Indoor DC Pass I-O (A - Floors 2 & 3)                           |     | 10   |
| 544602   | Tap 5...2400MHz "EasyF" 4W 20dB Indoor DC Pass I-O (B - Floors 4 & 5)                           |     | 10   |
| 544702   | Tap 5...2400MHz "EasyF" 4W 25dB Indoor DC Pass I-O (C - Floors 6...8)                           |     | 10   |
| 5492   | Tap 5...2400MHz "EasyF" 6W 16dB Indoor DC Pass I-O (TA - Floor 1)                               |     | 6    |
| 5493   | Tap 5...2400MHz "EasyF" 6W 20dB Indoor DC Pass I-O (A - Floors 2 & 3)                           |     | 6    |
| 5494   | Tap 5...2400MHz "EasyF" 6W 24dB Indoor DC Pass I-O (B - Floors 4 & 5)                           |     | 6    |
| 5610   | Tap 5...2400MHz "EasyF" 8W 16dB Indoor DC Pass I-O (TA - Floor 1)                               |     | 6    |
| 5611   | Tap 5...2400MHz "EasyF" 8W 22dB Indoor DC Pass I-O (A - Floor 2)                                |     | 6    |
| <b>ACCESSORIES</b>                             |   |     |      |
| 545510   | Face Plate for Mini Series White 62x56x18mm   | (W) | 10   |
| 417801   | Outdoor Case Black Model for Mini Series<br>Dimensions: External 88x78x39mm Internal 57x47x13mm | (B) | 1/10 |
| 545501   | Face Plate White 93x74x21mm   | (W) | 10   |
| 4177   | Outdoor Case Black Small Model<br>Dimensions: External 113x88x35mm Internal 92x66x27mm          | (B) | 1/5  |
| 4163   | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm         | (G) | 1/5  |
| 4087   | Terminal Load "EasyF" 750hm with DC Blocked   |     | 25   |
| 408701   | Terminal Load "EasyF" 750hm with DC Blocked, Plastic Box  |     | 100  |
| <b>TAPS WITH "F" CONNECTOR</b>                 |   |     |      |
| <b>5...2400MHz</b>                             |   |     |      |
| 5130   | Tap 5...2400MHz "F" 2W 12dB Indoor (TA - Floor 1)   |     | 1/10 |
| 5131   | Tap 5...2400MHz "F" 2W 15dB Indoor (A - Floors 2 & 3)   |     | 1/10 |
| 5132   | Tap 5...2400MHz "F" 2W 18dB Indoor (B - Floors 4 & 5)   |     | 1/10 |
| 5133   | Tap 5...2400MHz "F" 2W 23dB Indoor (C - Floors 6 & 7)   |     | 1/10 |
| 5134   | Tap 5...2400MHz "F" 2W 27dB Indoor (D - Floors 8...10)  |     | 1/10 |
| 514110   | Tap 5...2400MHz "F" 4W 12dB Indoor DC Pass All (TA - Floor 1)                                   |     | 1/10 |
| 514210   | Tap 5...2400MHz "F" 4W 16dB Indoor DC Pass All (A - Floors 2 & 3)                               |     | 1/10 |
| 514310   | Tap 5...2400MHz "F" 4W 19dB Indoor DC Pass All (B - Floors 4 & 5)                               |     | 1/10 |
| 514410   | Tap 5...2400MHz "F" 4W 24dB Indoor DC Pass All (C - Floors 6...8)                               |     | 1/10 |
| 5145   | Tap 5...2400MHz "F" 4W 29dB Indoor (D - Floors 9 & 10)  |     | 1/10 |
| 5135   | Tap 5...2400MHz "F" 6W 19dB Indoor (TA - Floor 1)   |     | 1/10 |
| 5136   | Tap 5...2400MHz "F" 6W 21dB Indoor (A - Floors 2 & 3)   |     | 1/10 |
| 5137   | Tap 5...2400MHz "F" 6W 25dB Indoor (B - Floors 4...6)   |     | 1/10 |
| 5146   | Tap 5...2400MHz "F" 8W 19dB Indoor (TA - Floor 1)   |     | 1/10 |
| 5147   | Tap 5...2400MHz "F" 8W 20dB Indoor (A - Floors 2 & 3)   |     | 1/10 |
| 5148   | Tap 5...2400MHz "F" 8W 25dB Indoor (B - Floors 4...6)   |     | 1/10 |



▲ Mini-Tap:  
(57x 47 x 13 mm)



▲ 5494



▲ 5133



▲ 514110



▲ 5146



▲ 4087

# DISTRIBUTION

| Ref. | Description |  |  |
|------|-------------|--|--|
|------|-------------|--|--|

## TAPS WITH "F" CONNECTOR

### 5...1218MHz - DOCSIS 3.1

|          |                                    |      |
|----------|------------------------------------|------|
| ★ 451803 | Tap 5...1218MHz "F" 1W 14dB Indoor | 1/10 |
| ★ 451903 | Tap 5...1218MHz "F" 1W 17dB Indoor | 1/10 |
| ★ 456103 | Tap 5...1218MHz "F" 2W 8dB Indoor  | 1/10 |
| ★ 456203 | Tap 5...1218MHz "F" 2W 11dB Indoor | 1/10 |
| ★ 456303 | Tap 5...1218MHz "F" 2W 14dB Indoor | 1/10 |
| ★ 456603 | Tap 5...1218MHz "F" 2W 23dB Indoor | 1/10 |
| ★ 456703 | Tap 5...1218MHz "F" 2W 26dB Indoor | 1/10 |
| ★ 457103 | Tap 5...1218MHz "F" 4W 8dB Indoor  | 1/10 |
| ★ 457203 | Tap 5...1218MHz "F" 4W 11dB Indoor | 1/10 |
| ★ 457303 | Tap 5...1218MHz "F" 4W 14dB Indoor | 1/10 |
| ★ 457403 | Tap 5...1218MHz "F" 4W 17dB Indoor | 1/10 |
| ★ 457503 | Tap 5...1218MHz "F" 4W 20dB Indoor | 1/10 |
| ★ 457603 | Tap 5...1218MHz "F" 4W 23dB Indoor | 1/10 |
| ★ 457703 | Tap 5...1218MHz "F" 4W 26dB Indoor | 1/10 |
| ★ 457803 | Tap 5...1218MHz "F" 8W 12dB Indoor | 1/10 |
| ★ 457903 | Tap 5...1218MHz "F" 8W 14dB Indoor | 1/10 |
| ★ 458003 | Tap 5...1218MHz "F" 8W 17dB Indoor | 1/10 |
| ★ 458103 | Tap 5...1218MHz "F" 8W 20dB Indoor | 1/10 |

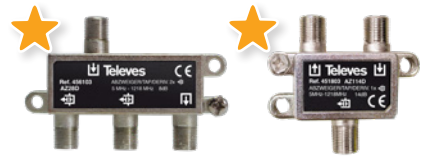
### ACCESSORIES

|        |   |   |        |
|--------|---|---|--------|
| 545501 | Face Plate White 93x74x21mm   | W | 10     |
| 4177   | Outdoor Case Black Small Model<br>Dimensions: External 113x88x35mm Internal 92x66x27mm  | B | 1/5    |
| 4163   | Outdoor Case Grey Large Model<br>Dimensions: External 136x127x45mm Internal 125x97x35mm | G | 1/5    |
| 4061   | Terminal Load "F" 75Ohm with DC Blocked   |   | 10/200 |
| 4058   | Terminal Load "F" 75Ohm without DC Blocked  |   | 10/200 |
| 405802 | Terminal Load "F" 75Ohm without DC Blocked, Plastic Box                                 |   | 100    |

## TAPS WITH "F" TAP PORTS & 5/8" IN/OUT PORTS CONNECTORS (OUTDOOR)

### 5...1000MHz

|      |   |   |
|------|---|---|
| 4611 | Tap 5...1000MHz "F" Tap Ports & 5/8" In/Out Ports 2W 35dB Outdoor | 1 |
|------|---|---|



▲ 456103      ▲ 451803



▲ 457503



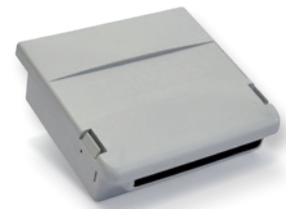
▲ 458003



▲ 545501



▲ 4177

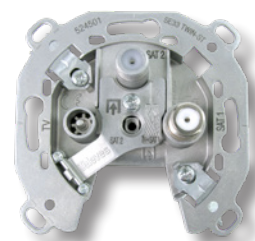


▲ 4163

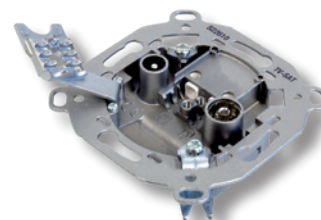


▲ 4611

| Ref.                                       | Description  |               |        |
|--|--|---------------|--------|
| <b>OUTLETS</b>                             |  |               |        |
| <b>END OUTLETS</b>                         |  |               |        |
| 5232                                       | End Outlet Diplexed 5...1000MHz, TV-FM 0.5-3dB without DC Pass                               |               | 10/100 |
| 5226                                       | End Outlet Diplexed 5...862/950...2150MHz, TV/FM-SAT 0.6-1.5dB with DC Pass                  |               | 10/100 |
| 522610                                     | End Outlet Diplexed 5...790/950...2150MHz, TV/FM-SAT 0.6-1.5dB with DC Pass                  | <b>LTE790</b> | 10/100 |
| 5276                                       | End Outlet Diplexed 5...862/950...2150MHz, TV/FM-SAT 0.6-1.5dB with DC Pass (without Clamps) |               | 10/100 |
| 527610                                     | End Outlet Diplexed 5...790/950...2150MHz, TV/FM-SAT 0.6-1.5dB with DC Pass (without Clamps) | <b>LTE790</b> | 10/100 |
| 524603                                     | End Outlet Triplexed 5...2400MHz, TV-FM-SAT 4-4-1.5dB with DC Pass                           |               | 10/100 |
| 524501                                     | End Outlet Triplexed 5...2400MHz, TV/FM-SAT1-SAT2 1-1.5-1dB with DC Pass                     |               | 10/100 |
| 5250                                       | End Outlet Triplexed 5...2150MHz, TV-FM-SAT/DATA 5-3.8-6.5/4.5dB with DC Pass                |               | 10/100 |
| 5270                                       | Through Outlet Bridged (Chassis Only)  |               | 10/100 |
| <b>5...790/862MHz - LOW THROUGH LOSSES</b> |  |               |        |
| 5230                                       | End Outlet 5...862MHz, TV-FM 4.5-18dB without DC Pass  |               | 10/100 |
| 5231                                       | Through Outlet 5...862MHz, TV-FM 9.5-24dB without DC Pass                                    |               | 10/100 |
| 523110                                     | Through Outlet 5...790MHz, TV-FM 9.5-24dB without DC Pass                                    | <b>LTE790</b> | 10/100 |
| <b>5...1000MHz</b>                         |  |               |        |
| 5232                                       | End Outlet Diplexed 5...1000MHz, TV-FM 0.5-3dB without DC Pass                               |               | 10/100 |
| 5233                                       | Through Outlet 5...1000MHz, TV-FM 7-26dB without DC Pass                                     |               | 10/100 |
| <b>5...2150MHz</b>                         |  |               |        |
| 5229                                       | End Outlet Splitter 5...2150MHz,TV/FM-SAT 4-5dB with DC Pass (Floor 1)                       |               | 10/100 |
| 5228                                       | Through Outlet Diplexed 5...2150MHz,TV/FM-SAT 8.5-10dB with DC Pass (Floors 2)               |               | 10/100 |
| 5227                                       | Through Outlet Splitter 5...2150MHz,TV/FM-SAT 13-14dB with DC Pass (Floors 3...5)            |               | 10/100 |
| 5236                                       | Through Outlet Splitter 5...2150MHz,TV/FM-SAT 20-24dB with DC Pass (Floors 6...12)           |               | 10/100 |
| <b>MULTIMEDIA</b>                          |  |               |        |
| 524001                                     | End Outlet Multimedia 5...1006MHz, TV-FM-DATA 8-7-3.6dB                                      |               | 10/100 |
| 524701                                     | Through Outlet Multimedia 5...1006MHz, TV-FM-DATA 12-14.5-12dB                               |               | 10/100 |
| 524801                                     | Through Outlet Multimedia 5...1006MHz, TV-FM-DATA 19-20-17.5dB                               |               | 10/100 |
| 5249                                       | Through Outlet Multimedia 5...1006MHz, TV-FM-DATA 23.5-23-22dB                               |               | 10/100 |
| <b>ACCESSORIES</b>                         |  |               |        |
| <b>80x80mm</b>                             |  |               |        |
| 5441                                       | Face Plate White for TV-R Outlet   | (W)           | 10     |
| 5440                                       | Face Plate White for TV/R-SAT Outlet   | (W)           | 10     |
| 544302                                     | Face Plate White for TV-R-SAT Outlet   | (W)           | 10     |
| 5275                                       | Face Plate White for TV-R-SAT-DATA Outlet  | (W)           | 10     |
| 527402                                     | Face Plate White for TV/R-SAT-DATA Outlet  | (W)           | 12     |
| 5442                                       | Back Box White for Surface Mounting Outlet   | (W)           | 10     |
| <b>85x85mm</b>                             |  |               |        |
| 544002                                     | Face Plate White for TV/R-SAT Outlet   | (W)           | 10     |
| 544301                                     | Face Plate White for TV-R-SAT Outlet   | (W)           | 10     |



▲ 524501



▲ 522610



▲ 524603



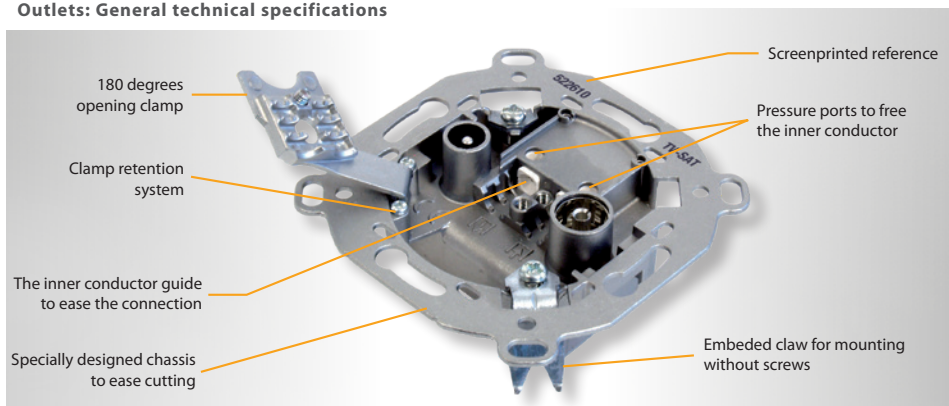
▲ 5250 + 5275



▲ 544302

▲ 5442

### Outlets: General technical specifications



A simple push is enough to connect the inner conductor, no screws needed.

Support an inner conductor with diameters ranging: from Ø 0.65 to Ø 1.2 mm.

Support an outdoor cable with a diameter ranging: from Ø 5 to Ø 6.9 mm.

Allows the visualization of the connection.

Compliant with the European guidelines 2014/30/EU, 2014/35/EU, and RoHS 2011/65/EU.

The outlets with data connection are compatible with DOCSIS 3.0.





# COAXIAL CABLE

| Ref.   | Description  |   |   |     |
|--|--|---|---|-----|
| <b>COAXIAL CABLES</b>  |  |   |   |     |
| <b>CU INNER CONDUCTOR / CuSn BRAID (CLASS A++ TRIPLE SHIELDED)</b> |  |   |   |     |
| <b>EN 50117-2-4 / B2ca</b>   |  |   |   |     |
| 413910   | Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White | ○ | Ⓜ | 100 |
| 413911   | Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White | ○ | Ⓜ | 250 |
| 413912   | Coaxial Cable SK2020plus LSFH UV Resistant B2ca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White | ● | Ⓜ | 500 |
| <b>EN 50117-2-4 / Cca</b>  |  |   |   |     |
| ★ 414901   | Coaxial Cable SK2015plus LSFH UV Resistant Cca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White  | ○ | Ⓜ | 100 |
| ★ 414902   | Coaxial Cable SK2015plus LSFH UV Resistant Cca Class A++ Triple Shielded TSH 18AtC Ø 1.05/4.6/6.9mm White  | ○ | Ⓜ | 250 |
| <b>EN 50117-2-4 / Eca</b>  |  |   |   |     |
| 4138   | Coaxial Cable SK2000plus PVC Eca Class A++ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm White              | ○ | Ⓜ | 100 |
| 413802   | Coaxial Cable SK2000plus PVC Eca Class A++ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm White              | ○ | Ⓜ | 250 |
| 413801   | Coaxial Cable SK2000plus PVC Eca Class A++ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm White              | ● | Ⓜ | 500 |
| <b>CU INNER CONDUCTOR / CuSn BRAID (CLASS A+ TRIPLE SHIELDED)</b>  |  |   |   |     |
| <b>EN 50117-2-5 / Dca</b>  |  |   |   |     |
| 414002   | Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black  | ○ | Ⓟ | 100 |
| 414003   | Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black  | ○ | Ⓟ | 250 |
| 414004   | Coaxial Cable SK2003plus LSFH UV Resistant Dca Class A+ Triple Shielded TSH 18AtC Ø 1.02/4.6/6.70mm Black  | ● | Ⓟ | 500 |
| <b>EN 50117-2-4 / Eca (1)</b>                                      |  |   |   |     |
| ★ 413501   | Coaxial Cable SK125plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White                 | ○ | Ⓜ | 100 |
| ★ 413502   | Coaxial Cable SK125plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White                 | ○ | Ⓜ | 250 |
| ★ 413503   | Coaxial Cable SK125plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White                 | ● | Ⓜ | 500 |
| ★ 413708   | Coaxial Cable SK110plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm White                | ● | Ⓜ | 250 |
| 413707   | Coaxial Cable SK110plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.70mm Black                | ● | Ⓟ | 250 |
| <b>CU INNER CONDUCTOR / CU BRAID / BCT-C-H (CLASS A)</b>           |  |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |  |   |   |     |
| 214102   | Coaxial Cable T-100plus PVC Eca Class A 16VRtC Ø 1.13/4.8/6.6mm White                                      | ○ | Ⓜ | 100 |
| 214104   | Coaxial Cable T-100plus PVC Eca Class A 16VRtC Ø 1.13/4.8/6.6mm White                                      | ○ | Ⓜ | 250 |
| 214108   | Coaxial Cable T-100plus PVC Eca Class A 16VRtC Ø 1.13/4.8/6.6mm Black                                      | ○ | Ⓟ | 100 |
| <b>EN 50117-2-4 / Dca</b>  |  |   |   |     |
| 215101   | Coaxial Cable T-100plus LSFH Dca Class A 16VRtC Ø 1.12/4.7/6.6mm Grey                                      | ○ | Ⓞ | 100 |
| <b>EN 50117-2-5 / Fca</b>  |  |   |   |     |
| 215501   | Coaxial Cable T-100plus PE Fca Class A 16PRtC Ø 1.13/4.8/6.6mm Black                                       | ○ | Ⓟ | 100 |
| 215502   | Coaxial Cable T-100plus PE Fca Class A 16PRtC Ø 1.13/4.8/6.6mm Black                                       | ● | Ⓟ | 250 |
| <b>CU INNER CONDUCTOR / CU+AL BRAID</b>                            |  |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |  |   |   |     |
| 2138   | Coaxial Cable CXT PVC Cu/Cu+Al 18VRtC Ø 1.00/4.8/6.6mm White   | ○ | Ⓜ | 100 |
| 213802   | Coaxial Cable CXT PVC Cu/Cu+Al 18VRtC Ø 1.00/4.8/6.6mm White   | ○ | Ⓜ | 250 |
| 2139   | Coaxial Cable CXT PVC Cu/Cu+Al 18VRtC Ø 1.00/4.8/6.6mm Black   | ○ | Ⓟ | 100 |

## TRIPLE SHIELDED CABLES

The Trishield cable provides the greatest immunity against interferences. Its use is specially recommend when trying to avoid interference.



COVERAGE UP TO 82%



SK2020plus (4139xx)

**CLASS A++**  
B2ca

An exceptional TSH cable with high screening attenuation, that offers an A++ class.

Additionally, due to its LSFH outer sheath, it complies with the requirements for CPR class B2ca, so it has a very low fire hazard.



SK2015plus (4149xx)

**CLASS A++**  
Cca



SK2000plus (4138xx)

**CLASS A++**  
Eca



SK2003plus (4140xx)

**CLASS A+**  
Dca



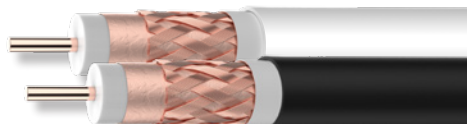
▲ SK110plus (4137xx)

**CLASS A+**  
Eca



▲ SK125PLUS (4135xx)

**CLASS A+**  
Eca



▲ T-100plus (214102/04/08)

**CLASS A**  
Eca

CENELEC Standard:

EN 50117-2-1: Indoor Cable 5...1000MHz  
EN 50117-2-4: Indoor Cable 5...3000MHz  
EN 50117-2-5: Outdoor Cable 5...3000MHz

(1) Braid coverage:

SK125plus cable (4135xx) = 60%  
SK110plus cable (4137xx) = 55%

# COAXIAL CABLE

| Ref.   | Description   |   |   |     |
|--|---|---|---|-----|
| <b>COAXIAL CABLES</b>  |   |   |   |     |
| <b>CU INNER CONDUCTOR / AL BRAID (CLASS A+ TRIPLE SHIELDED)</b>          |   |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |   |   |   |     |
| 413601   | Coaxial Cable SK100plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White  | ○ | Ⓜ | 100 |
| 413602   | Coaxial Cable SK100plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White  | ○ | Ⓜ | 250 |
| 413603   | Coaxial Cable SK100plus PVC Eca Class A+ Triple Shielded TSH 18VAtC Ø 1.02/4.6/6.7mm White  | ● | Ⓜ | 500 |
| <b>CU INNER CONDUCTOR / AL BRAID / BCT-C-H (CLASS A)</b>                 |   |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |   |   |   |     |
| 2126   | Coaxial Cable T-100 PVC Eca Class A 16VAtC Ø 1.13/4.8/6.6mm White                           | ○ | Ⓜ | 100 |
| 212601   | Coaxial Cable T-100 PVC Eca Class A 16VAtC Ø 1.13/4.8/6.6mm White                           | ● | Ⓜ | 250 |
| 212602   | Coaxial Cable T-100 PVC Eca Class A 16VAtC Ø 1.13/4.8/6.6mm Black                           | ● | Ⓟ | 250 |
| 2128   | Coaxial Cable CXT PVC Eca Class A 19VAtC Ø 1.00/4.5/6.5mm White                             | ○ | Ⓜ | 100 |
| 212801   | Coaxial Cable CXT PVC Eca Class A 19VAtC Ø 1.00/4.5/6.5mm White                             | ● | Ⓜ | 250 |
| <b>EN 50117-2-4 / Dca</b>  |   |   |   |     |
| 212811   | Coaxial Cable CXT LSFH Dca Class A 19VAtC Ø 1.00/4.5/6.5mm Grey                             | ● | Ⓔ | 250 |
| <b>EN 50117-2-5 / Fca</b>  |   |   |   |     |
| 212501   | Coaxial Cable T-100 PE Fca Class A 16PatC Ø 1.13/4.8/6.6mm Black                            | ○ | Ⓟ | 100 |
| 212502   | Coaxial Cable T-100 PE Fca Class A 16PatC Ø 1.13/4.8/6.6mm Black                            | ● | Ⓟ | 250 |
| <b>CCS (Cu+Ac) INNER CONDUCTOR / AL BRAID (CLASS A+ TRIPLE SHIELDED)</b> |   |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |   |   |   |     |
| 414801   | Cable Coaxial SK6Fplus PVC Eca Class A+ Triple Shielded TSH 19VAtC.A Ø 1.00/4.6/6.8mm White | ○ | Ⓜ | 100 |
| 414802   | Cable Coaxial SK6Fplus PVC Eca Class A+ Triple Shielded TSH 19VAtC.A Ø 1.00/4.6/6.8mm White | ○ | Ⓜ | 250 |
| 414803   | Cable Coaxial SK6Fplus PVC Eca Class A+ Triple Shielded TSH 19VAtC.A Ø 1.00/4.6/6.8mm White | ● | Ⓜ | 500 |
| <b>CCS (Cu+Ac) INNER CONDUCTOR / AL BRAID (CLASS A)</b>                  |   |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |   |   |   |     |
| 2127   | Coaxial Cable CXT-1 PVC Eca 17VAtC.A Ø 1.00/4.7/6.7mm White                                 | ○ | Ⓜ | 100 |
| 212703   | Coaxial Cable CXT-1 PVC Eca 17VAtC.A Ø 1.00/4.7/6.7mm White                                 | ● | Ⓜ | 250 |
| 212704   | Coaxial Cable CXT-1 PVC Eca 17VAtC.A Ø 1.00/4.7/6.7mm White                                 | ● | Ⓜ | 500 |
| 212701   | Coaxial Cable CXT-1 PVC Eca 17VAtC.A Ø 1.00/4.7/6.7mm Black                                 | ○ | Ⓟ | 100 |
| 212702   | Coaxial Cable CXT-1 PVC Eca 17VAtC.A Ø 1.00/4.7/6.7mm Black                                 | ● | Ⓟ | 250 |
| <b>CCS (Cu+Ac) INNER CONDUCTOR / AL BRAID (CLASS A)</b>                  |   |   |   |     |
| <b>EN 50117-2-1 / Eca</b>  |   |   |   |     |
| 210102   | Coaxial Cable CXT-50 PVC Eca Class A 23VAtC.A Ø 0.8/3.8/6.0mm White                         | ● | Ⓜ | 250 |
| 210202   | Coaxial Cable CXT-60 PVC Eca Class A 19VAtC.A Ø 1.00/4.7/6.9mm White                        | ● | Ⓜ | 250 |
| <b>UNDERGROUND CABLES</b>  |   |   |   |     |
| <b>CU INNER CONDUCTOR / CU BRAID</b>                                     |   |   |   |     |
| <b>EN 50117-2-5 / Fca</b>  |   |   |   |     |
| 2140   | Coaxial Cable 1/2" PE Fca Class A 7PRtC Ø 2.7/11.5/15.0mm Black                             | ● | Ⓟ | 500 |
| 214901   | Coaxial Cable TR-165 PE Fca Class A 11PRtC Ø 1.63/7.2/10.1mm Black                          | ● | Ⓟ | 250 |
| <b>MICROCABLE</b>  |   |   |   |     |
| <b>CU INNER CONDUCTOR / CuSn BRAID (CLASS A/B)</b>                       |   |   |   |     |
| <b>EN 50117-2-4 / Eca</b>  |   |   |   |     |
| 210601   | Coaxial Cable CXT-5 PVC Eca Class A 24VAtC Ø 0.8/3.5/5.0mm White                            | ○ | Ⓜ | 150 |
| 210603   | Coaxial Cable CXT-5 PVC Eca Class B 24VAtC Ø 0.8/3.5/5.0mm White                            | ○ | Ⓜ | 100 |
| <b>ACCESSORIES</b>   |   |   |   |     |
| 2145   | Professional Coaxial Cable Stripper   |   |   | 10  |
| 2162   | Coaxial Cable Stripper (Bag B2)   |   |   | 10  |
| 212001   | Coaxial Cable / Optical Fiber Dispenser, Small model (plastic drums) <sup>(1)</sup>         |   |   | 1   |
| 212011   | Coaxial Cable / Optical Fiber Dispenser, Large model (plastic drums) <sup>(2)</sup>         |   |   | 1   |



▲ SK100plus (4136xx)

**CLASS A\***  
Eca



▲ T-100 (2126, 212601)

**CLASS A**  
Eca



▲ 212811

**CLASS A**  
Dca



▲ SK6Fplus (4148xx)

**CLASS A\***  
Eca



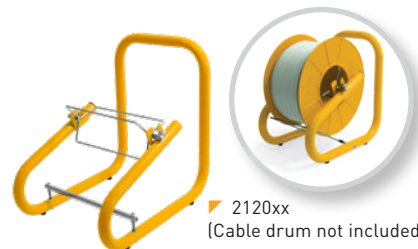
▲ 1/2" (2140)

**CLASS A**  
Fca



▲ TR-165 (214901)

**CLASS A**  
Fca



▶ 2120xx  
(Cable drum not included)



▶ MORE INFORMATION ABOUT CPR:  
[en.televes.com/cpr](http://en.televes.com/cpr)

(1) For coaxial cable in 100m plastic drum.

(2) For coaxial cable in 250m plastic drum.

## Coaxial cable: technical specifications

| References                     |             | 4149xx               | 41391x               | 4138xx        | 4140xx               | 4135xx        | 4137xx        | 214102<br>214104<br>214108 | 215501<br>215502 | 215101    | 2138xx<br>2139 | 4136xx    |
|--------------------------------|-------------|----------------------|----------------------|---------------|----------------------|---------------|---------------|----------------------------|------------------|-----------|----------------|-----------|
| Type                           |             | SK2015plus           | SK2020plus           | SK2000plus    | SK2003plus           | SK125plus     | SK110plus     | T-100plus                  |                  | T-100plus | CXT            | SK100plus |
|                                |             | Class A++            | Class A++            | Class A++     | Class A+             | Class A+      | Class A+      | Class A                    |                  | Class A   |                | Class A+  |
| Inner Conductor                | ∅ mm        | 1.05                 | 1.05                 | 1.02          |                      | 1.02          | 1.02          | 1.13                       |                  | 1.12      | 1.00           | 1.02      |
|                                | Material    | Cu                   | Cu                   | Cu            |                      | Cu            | Cu            | Cu                         |                  | Cu        | Cu             | Cu        |
|                                | Res. Ohm/Km | 22                   | 22                   | 22            |                      | 22            | 22            | <20                        |                  | 18        | <23            | <22       |
| Dielectric                     | ∅ mm        | 4.6                  | 4.6                  | 4.6           |                      | 4.6           | 4.6           | 4.8                        |                  | 4.7       | 4.8            | 4.6       |
|                                | Material    | PEE                  | PEE                  | PEE           |                      | PEE           | PEE           | PEE                        |                  | PEE       | PEE            | PEE       |
| Over Lapped Foil               | Material    | B                    | B                    | B             |                      | B             | B             | C                          |                  | C         | C              | B         |
| Braid                          | Material    | CuSn (98% Cu)        | CuSn (98% Cu)        | CuSn (98% Cu) |                      | CuSn (98% Cu) | CuSn (98% Cu) | Cu                         |                  | Cu        | CCA            | Al        |
|                                | Coverage %  | 82                   | 82                   | 82            |                      | 60            | 55            | 73                         |                  | 73        | 35             | 60        |
|                                | Res. Ohm/Km | <11                  | <11                  | 10.5          |                      | 15,0          | 15,0          | <12                        |                  | ≤14       | <35            | <22       |
| Anti-migrating Film            |             | No                   | No                   | No            |                      | No            | No            | Yes                        |                  | Yes       | No             | No        |
| 2 <sup>nd</sup> shielding foil |             | Yes                  | Yes                  | Yes           |                      | Yes           | Yes           | No                         |                  | No        | No             | Yes       |
| Petro-Jelly                    |             | No                   | No                   | No            |                      | No            | No            | No                         |                  | No        | No             | No        |
| Outer sheath                   | ∅ mm        | 6.9                  | 6.9                  | 6.7           |                      | 6.7           | 6.7           | 6.6                        |                  | 6.6       | 6.6            | 6.7       |
|                                | Material    | LSFH<br>UV Resistant | LSFH<br>UV Resistant | PVC           | LSFH<br>UV Resistant | PVC           | PVC           | PVC                        | PE               | PVC LSFH  | PVC            | PVC       |
| Minimum bending radius         | mm          | 34.5                 | 34.5                 | 33.5          |                      | 33.5          | 33.5          | 33                         |                  | 33        | 33             | 33.5      |
| Shielding at 1GHz              | dB          | >105                 | >105                 | >95           |                      | >95           | >95           | >85                        |                  | >85       | >75            | >95       |
| Capacitance                    | pF/m        | 54                   | 54                   | 54            |                      | 54            | 54            | 55                         |                  | 55        | 55             | 53        |
| Impedance                      | Ohm         | 75                   | 75                   | 75            |                      | 75            | 75            | 75                         |                  | 75        | 75             | 75        |
| Velocity Ratio                 | %           | 84                   | 84                   | 84            |                      | 84            | 84            | 82                         |                  | 82        | 82             | 82        |
| <b>Attenuations (dB/m)</b>     |             |                      |                      |               |                      |               |               |                            |                  |           |                |           |
| Frequency (MHz)                | 200         | 0.09                 | 0.09                 | 0.09          |                      | 0.09          | 0.09          | 0.08                       |                  | 0.08      | 0.09           | 0.09      |
|                                | 500         | 0.14                 | 0.14                 | 0.14          |                      | 0.14          | 0.14          | 0.13                       |                  | 0.13      | 0.14           | 0.14      |
|                                | 800         | 0.18                 | 0.18                 | 0.18          |                      | 0.18          | 0.18          | 0.16                       |                  | 0.16      | 0.18           | 0.18      |
|                                | 1000        | 0.21                 | 0.21                 | 0.21          |                      | 0.21          | 0.21          | 0.19                       |                  | 0.19      | 0.20           | 0.21      |
|                                | 1350        | 0.25                 | 0.25                 | 0.25          |                      | 0.25          | 0.25          | 0.22                       |                  | 0.22      | 0.24           | 0.25      |
|                                | 1750        | 0.28                 | 0.28                 | 0.28          |                      | 0.28          | 0.28          | 0.25                       |                  | 0.25      | 0.28           | 0.28      |
|                                | 2050        | 0.31                 | 0.31                 | 0.30          |                      | 0.31          | 0.31          | 0.28                       |                  | 0.28      | 0.30           | 0.30      |
| 2300                           | 0.32        | 0.32                 | 0.32                 |               | 0.32                 | 0.32          | 0.30          |                            | 0.30             | 0.32      | 0.32           |           |

| References                     |             | 2126xx  | 2125xx   | 4148xx | 2128<br>212801 | 212811 | 2127xx  | 210102  | 210202  | 210601  | 210603  | 2140    | 214901 |
|--------------------------------|-------------|---------|----------|--------|----------------|--------|---------|---------|---------|---------|---------|---------|--------|
| Type                           |             | T-100   | SK6Fplus |        | CXT            | CXT-1  | CXT-50  | CXT-60  | CXT-5   |         | 1/2"    | TR-165  |        |
|                                |             | Class A | Class A+ |        | Class A        |        | Class A | Class A | Class A | Class B | Class A | Class A |        |
| Inner Conductor                | ∅ mm        | 1.13    | 1.02     |        | 1.00           |        | 0.80    | 1.00    | 0.80    |         | 2.70    | 1.63    |        |
|                                | Material    | Cu      | CCS      |        | Cu             |        | CCS     | CCS     | Cu      |         | Cu      | Cu      |        |
|                                | Res. Ohm/Km | <20     | <110     |        | <23            |        | <120    | <140    | <95     | <37     |         | 3.2     | <9     |
| Dielectric                     | ∅ mm        | 4.8     | 4.6      |        | 4.5            |        | 4.7     | 3.8     | 4.7     | 3.5     |         | 11.5    | 7.2    |
|                                | Material    | PEE     | PEE      |        | PEE            |        | PEE     | PEE     | PEE     | PEE     |         | PEE     | PEE    |
| Over Lapped Foil               | Material    | A       | B        |        | B              |        | B       | A       | A       | A       |         | C       | D      |
| Braid                          | Material    | Al      | Al       |        | Al             |        | Al      | Al      | TCCAM   |         | Cu      | Cu      |        |
|                                | Coverage %  | 77      | 60       |        | 79             |        | 77      | 75      | 77      | 74      | 55      | 53      | 70     |
|                                | Res. Ohm/Km | <27     | <30      |        | <31            |        | <30     | <32     | <30     | <28     | <35     | 7       | <7.2   |
| Anti-migrating Film            |             | No      | No       |        | No             |        | No      | No      | No      |         | No      | No      |        |
| 2 <sup>nd</sup> shielding foil |             | No      | Yes      |        | No             |        | No      | No      | No      |         | No      | No      |        |
| Petro-Jelly                    |             | No      | No       |        | No             |        | No      | No      | No      |         | Yes     | Yes     |        |
| Outer sheath                   | ∅ mm        | 6.6     | 6.8      |        | 6.5            |        | 6.7     | 6.0     | 6.9     | 5.0     |         | 15.0    | 10.1   |
|                                | Material    | PVC     | PE       | PVC    | PVC            | LSFH   | PVC     | PVC     | PVC     | PVC     |         | PE      | PE     |
| Minimum bending radius         | mm          | 33      | 34       |        | 33             |        | 33      | 30      | 34.5    | 25      |         | 75      | 50     |
| Shielding at 1GHz              | dB          | >85     | >85      |        | >85            |        | >85     | >85     | >85     | >85     | >75     | >85     | >85    |
| Capacitance                    | pF/m        | 52      | 53       |        | 54             |        | 54      | 54      | 54      | 53      |         | 55      | 53     |
| Impedance                      | Ohm         | 75      | 75       |        | 75             |        | 75      | 75      | 75      | 75      |         | 75      | 75     |
| Velocity Ratio                 | %           | 85      | 82       |        | 82             |        | 82      | 82      | 82      | 82      |         | 82      | 84     |
| <b>Attenuations (dB/m)</b>     |             |         |          |        |                |        |         |         |         |         |         |         |        |
| Frequency (MHz)                | 200         | 0.08    | 0.10     |        | 0.09           |        | 0.09    | 0.11    | 0.09    | 0.11    |         | 0.03    | 0.05   |
|                                | 500         | 0.13    | 0.15     |        | 0.14           |        | 0.15    | 0.18    | 0.15    | 0.18    |         | 0.05    | 0.09   |
|                                | 800         | 0.16    | 0.19     |        | 0.19           |        | 0.17    | 0.23    | 0.19    | 0.24    |         | 0.07    | 0.11   |
|                                | 1000        | 0.19    | 0.22     |        | 0.21           |        | 0.23    | 0.26    | 0.21    | 0.26    |         | 0.08    | 0.13   |
|                                | 1350        | 0.22    | 0.26     |        | 0.25           |        | 0.27    | 0.30    | 0.25    | 0.30    |         | 0.10    | 0.15   |
|                                | 1750        | 0.25    | 0.29     |        | 0.29           |        | 0.32    | 0.35    | 0.29    | 0.35    |         | 0.12    | 0.18   |
|                                | 2050        | 0.28    | 0.31     |        | 0.32           |        | 0.35    | 0.38    | 0.32    | 0.37    |         | 0.13    | 0.19   |
| 2300                           | 0.30        | 0.33    |          | 0.35   |                | 0.37   | 0.41    | 0.34    | 0.39    |         | 0.14    | 0.24    |        |

|               |                                  |
|---------------|----------------------------------|
| <b>Sheath</b> | <b>Environment</b>               |
| PVC           | Indoor                           |
| PE            | Outdoor                          |
| LSFH          | Special (Low Smoke Free Halogen) |

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <b>Over Lapped Foil composition</b> | <b>Environment</b>                |
| A                                   | Aluminium + Polyester + Aluminium |
| B                                   | Aluminium + Polyester             |
| C                                   | Copper + Polyester                |
| D                                   | Aluminium + Polypropylene         |

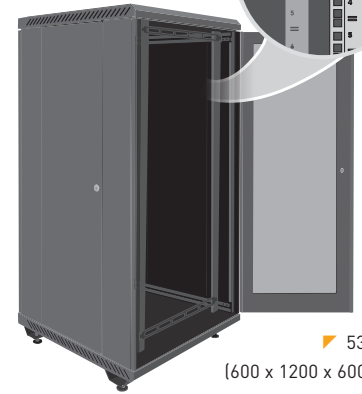
|                            |            |                    |              |  |
|----------------------------|------------|--------------------|--------------|--|
| <b>Other abbreviations</b> | <b>PE</b>  | Polyethylene       | <b>Cu</b>    | Copper                                 |
|                            | <b>PEE</b> | Foam Polyethylene  | <b>CCS</b>   | Copper Clad Steel                      |
|                            | <b>PVC</b> | Polyvinyl Chloride | <b>CuSn</b>  | Tinned Copper                          |
|                            | <b>Al</b>  | Aluminium          | <b>TCCAM</b> | Tinned Copper Clad Aluminium Magnesium |



# DATA ENCLOSURES AND CABLES

Televés

| Ref.                             | Description  |   |      |
|----------------------------------|--|---|------|
| <b>RACKS, ENCLOSURES AND UAP</b> |  |   |      |
| <b>RACKS AND ACCESSORIES</b>     |  |   |      |
| 533106                           | 19" Rack Cabinet 6RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount  |   | 1    |
| 533108                           | 19" Rack Cabinet 8RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount  |   | 1    |
| 533113                           | 19" Rack Cabinet 13RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount |   | 1    |
| 533117                           | 19" Rack Cabinet 17RU (+2RU extra). Glazed Door and Accesible from the side. Wall/Ground Mount |   | 1    |
| 533124                           | 19" Rack Cabinet 24RU (+2RU extra). Glazed Door and Accesible from the side. Ground Mount      |   | 1    |
| 533150                           | Panel for Rack 19" 1RU, Up to 24 "F" connectors  |   | 1    |
| 533153                           | T.OX Panel for Rack 19" 1RU, Up to 2x7 "F" connectors  |   | 1    |
| 533151                           | Panel for Rack 19" 1RU, Up to 24 "RJ45" connectors   |   | 1    |
| 533154                           | Cable Management for Rack 19" 1RU, 5 Holes   |   | 1    |
| 533156                           | Cable Management for Rack 19" 1RU, 5 Rings   |   | 1    |
| 533152                           | Splice Box for Rack 19" 1RU, Up to 24 "SC" connectors (Depth 230mm)                            |   | 1    |
| 533155                           | Tray for Rack 19" 2RU (Depth 265mm)  |   | 1    |
| 533161                           | Blank Panel for Rack 19" 1RU   |   | 1    |
| 533163                           | Blank Panel for Rack 19" 3RU   |   | 1    |
| 533165                           | Blank Panel for Rack 19" 5RU   |   | 1    |
| 533170                           | Screw Kit for Rack 19": Screw with washer and nut (50 units)                                   |   | 1    |
| <b>ENCLOSURES</b>                |  |   |      |
| ★ 546601                         | Closed Main Terminal Enclosure for Data/Coaxial Distribution (Up to 48 connections)            |   | 1    |
| 546610                           | Open Main Terminal Panel for Data/Coaxial Distribution (Up to 24 connections)                  |   | 1    |
| 546701                           | Data/Coaxial/Fiber Network Terminal Enclosure  |   | 1    |
| 546620                           | Coaxial Adapter Support "F" Female - "F" Female, for Panels (Ref. 546610)                      |   | 1    |
| <b>UAP (USER ACCESS POINT)</b>   |  |   |      |
| 546501                           | Passive Multiplexer "RJ45" 1Male-9Females with 0.2m LSFH Lead                                  |   | 1    |
| 209910                           | Data Terminal Box with 1 Cat.-6 Female RJ45 Connector  |   | 1    |
| <b>DATA CABLES</b>               |  |   |      |
| <b>CAT 7</b>                     |  |   |      |
| <b>Cca</b>                       |  |   |      |
| ★ 219101                         | Data Cable S/FTP Cat.-7 Cca Cu LSFH Ø 7.4mm White  | Ⓜ | 305  |
| <b>CAT 6A</b>                    |  |   |      |
| <b>Cca</b>                       |  |   |      |
| ★ 219301                         | Data Cable U/FTP Cat.-6A Cca Cu LSFH Ø 6.9mm White   | Ⓜ | 305  |
| <b>CAT 6</b>                     |  |   |      |
| <b>Dca</b>                       |  |   |      |
| 212101                           | Data Cable F/UTP Cat.-6 Dca Cu LSFH Ø 7.2mm Violet   | Ⓧ | 500  |
| 2123                             | Data Cable U/UTP Cat.-6 Dca Cu LSFH Ø 6.2mm Violet   | Ⓧ | 305  |
| 212302                           | Data Cable U/UTP Cat.-6 Dca Cu LSFH Ø 6.2mm Violet   | Ⓧ | 1000 |
| <b>Eca</b>                       |  |   |      |
| 212310                           | Data Cable U/UTP Cat.-6 Eca Cu LSFH Ø 6.2mm Violet   | Ⓧ | 305  |
| 2199                             | Data Cable U/UTP Cat.-6 Eca Cu PVC Ø 6.2mm White   | Ⓜ | 305  |
| <b>Fca</b>                       |  |   |      |
| 212201                           | Data Cable U/UTP Cat.-6 Fca Cu PE Ø 6.2mm White  | Ⓜ | 305  |
| <b>CAT 5E</b>                    |  |   |      |
| <b>Eca</b>                       |  |   |      |
| 219502                           | Data Cable F/UTP Cat.-5E Eca Cu LSFH Ø 6.3mm Grey  | Ⓧ | 305  |
| 219602                           | Data Cable U/UTP Cat.-5E Eca Cu LSFH Ø 5.5mm Grey  | Ⓧ | 305  |
| <b>Fca</b>                       |  |   |      |
| 219701                           | Data Cable U/UTP Cat.-5E Fca Cu PE Ø 5.5mm Black   | Ⓚ | 305  |
| <b>DATA CONNECTORS</b>           |  |   |      |
| 209901                           | Data Connector RJ45 UTP Cat.-6 Female  |   | 10   |
| 209902                           | Data Connector RJ45 UTP Cat.-6 Male  |   | 100  |
| <b>ACCESSORIES</b>               |  |   |      |
| 209801                           | Crimping Tool RJ45/RJ11/RJ12 and 4P4C/4P2C   |   | 1    |



533124  
(600 x 1200 x 600mm)



★ 546601  
(300 x 340 x 265mm)



▲ 546701  
(600 x 500 x 80mm)



▲ 546501

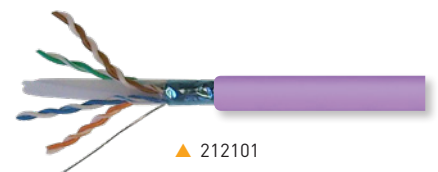
▲ 209910



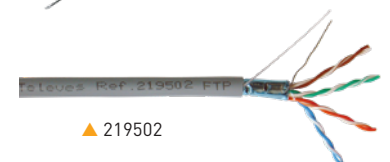
▲ 546620

▲ 209901

▲ 209902



▲ 212101



▲ 219502

# SET TOP BOXES & HOME ACCESSORIES

| Ref.                                      | Description  |             |
|---|--|-------------|
| <b>DTH STBs</b>                           |  |             |
| <b>SATELLITE TV</b>                       |  |             |
| ★ 717402                                  | Satellite Digital Set-top Box FTA DVB-S/S2 (S/PDIF + SCR1/2)   | 1/10        |
| 717501                                    | Satellite Digital Set-top Box FTA "zAs HD SAT" (FreeSat)   | 1/10        |
| <b>MODULATORS</b>                         |  |             |
| ★ 585401                                  | DiMod HD Encoder/Modulator DVB-T/DVB-C. 1i: HDMI/USB - 1 Mux(47...862MHz):<br>CODFM/QAM (MPEG2/4) Configurable by WiFi | 1           |
| 640301                                    | Wall Mount   | 1           |
| 5858                                      | Domestic Modulator with Display (VHF/UHF)  | 1           |
| 585801                                    | Domestic Modulator with Display (VHF/UHF) (UK Plug)  | 1           |
| 4377                                      | SCART-2RCA Cable Male-Male 1.5m Black (Blister T1)   | 10 <b>B</b> |
| <b>AUDIO/VIDEO &amp; IR TRANSMISSION</b>  |  |             |
| ★ 716701                                  | Digidom Transmitter + Receiver Audio/Video 5.8GHz 8 Channels   | 1/10        |
| <b>IR OVER RF TRANSMISSION</b>            |  |             |
| ★ 723703                                  | Digidom Universal Transmitter + Receiver, Remote Control Extender, 8 Channels  | 1/30        |
| ★ 721903                                  | Digidom Universal Transmitter, Remote Control Extender, 8 Channels   | 1/50        |
| <b>IR OVER COAXIAL CABLE TRANSMISSION</b> |  |             |
| 7605                                      | Transmitter + Receiver Remote Control Extender over Coaxial Cable  | 1/6         |
| 7606                                      | Single Transmitter Remote Control Extender over Coaxial Cable  | 1/10        |

## DIMOD



### MULTI-STANDARD HD ENCODER / MODULATOR

With a domestic design, DiMod generates a digital multiplex from **one high definition audio/video source**. It is configurable with a **smartphone, tablet or PC wirelessly** with a user friendly embedded web interface.



▲ 640301



▲ 717402



▲ zAs HD SAT



▲ 585801



▲ 716701



▲ 723703

**DO IT YOURSELF**

| Ref.   | Description  |        |      |
|--|--|--------|------|
| <b>ANTENNAS</b>  |  |        |      |
| <b>TERRESTRIAL - with TForce Technology</b> <span style="float: right;"><b>TFORCE</b></span>             |  |        |      |
| ★ 148925   | Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included [Single Packing]   | LTE700 | 1    |
| ★ 148923   | Ellipse Terrestrial Antenna UHF (Ch21-48), G 38dBi BOSS ON PSU included, UK plug [Single Packing]  | LTE700 | 1    |
| ★ 148905   | Ellipse Terrestrial Antenna UHF (Ch21-60), G 38dBi BOSS ON PSU included [Single Packing]   | LTE790 | 1    |
| 149921   | DAT BOSS Terrestrial Antenna UHF (Ch21-48) G 17dBi BOSS OFF, G 42dBi BOSS ON [Single Packing]  | LTE700 | 1    |
| 149941   | DAT BOSS Terrestrial Antenna UHF (Ch21-60) G 17dBi BOSS OFF, G 45dBi BOSS ON [Single Packing]  | LTE790 | 1/5  |
| 149721   | DAT BOSS LR Terrestrial Antenna UHF (Ch21-48) G 19dBi BOSS OFF, G 47dBi BOSS ON [Single Packing]   | LTE700 | 1    |
| 149740   | DAT BOSS LR Terrestrial Antenna UHF (Ch21-60) G 19dBi BOSS OFF, G 47dBi BOSS ON [Single Packing]   | LTE790 | 1    |
| 144022   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-48) G 7dBi BOSS OFF, G 34dBi BOSS ON [Kit with accessories]  | LTE700 | 1    |
| 144012   | DINOVA BOSS Terrestrial Antenna UHF (Ch21-60) G 7dBi BOSS OFF, G 34dBi BOSS ON [Kit with accessories]  | LTE790 | 1    |
| ★ 144422   | OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF(Ch21-48) G 17/16/25/25dBi BOSS ON [Kit with accessories]  | LTE700 | 1    |
| ★ 144442   | OMNINOVA BOSS Terrestrial Antenna BI/FM/BIII/UHF(Ch21-60) G 17/16/25/25dBi BOSS ON [Kit with accessories]  | LTE790 | 1    |
| <b>TERRESTRIAL</b> <span style="float: right;"><b>TFORCE</b></span>                                      |  |        |      |
| 144501   | CAMPNOVA BOSS Terrestrial Antenna FM/BIII/UHF G -2/10/22dBi BOSS ON [Kit with accessories]   | LTE790 | 1    |
| <b>INDOOR SET TOP ANTENNAS - with TForce Technology</b> <span style="float: right;"><b>TFORCE</b></span> |  |        |      |
| ★ 130220   | INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-48) G 20dBi (USB-microUSB cable included, for 5V powering)  | LTE700 | 1    |
| ★ 130240   | INNOVA BOSS Indoor Terrestrial Antenna UHF (Ch21-60) G 20dBi (USB-microUSB cable included, for 5V powering)  | LTE790 | 1    |
| <b>UNIVERSAL SATELLITE</b>   |  |        |      |
| 7506   | Sat Kit 830 Digital: ISD Offset Dish 830 Al (Ref. 793101) + Single LNB (Ref. 7475) + Satellite Digital Set-top Box FTA DVB-S/S2 (Ref. 717402)                  |        | 1    |
| 7525   | Sat Kit 830 Digital with Monoblock: ISD Offset Dish 830 Al (Ref. 793101) + LNB Monoblock (Ref.7611) + Satellite Digital Set-top Box FTA DVB-S/S2 (Ref. 717402) |        | 1    |
| <b>LNBs</b>  |  |        |      |
| 4365   | Single (Universal) LNB Hh/Vh/Hl/Vl (Blister T1)  |        | 6    |
| 4332   | Twin LNB (2 Outputs Hh/Vh/Hl/Vl) (Blister T2)  |        | 6    |
| <b>HOME ACCESSORIES</b>  |  |        |      |
| <b>AUDIO/VIDEO &amp; IR TRANSMISSION</b>   |  |        |      |
| ★ 716701   | Digidom Transmitter + Receiver Audio/Video 5.8GHz 8 Channels   |        | 1/10 |
| <b>IR OVER RF TRANSMISSION</b>   |  |        |      |
| ★ 723703   | Digidom Universal Transmitter + Receiver, Remote Control Extender, 8 Channels  |        | 1/30 |
| ★ 721903   | Digidom Universal Transmitter, Remote Control Extender, 8 Channels   |        | 1/50 |
| <b>IR OVER COAXIAL CABLE TRANSMISSION</b>  |  |        |      |
| 7605   | Transmitter + Receiver Remote Control Extender over Coaxial Cable  |        | 1/6  |
| 7606   | Single Transmitter Remote Control Extender over Coaxial Cable  |        | 1/10 |
| <b>DIGITAL RECEIVERS</b>   |  |        |      |
| <b>SATELLITE TV</b>  |  |        |      |
| ★ 717402   | Satellite Digital Set-top Box FTA DVB-S/S2 (S/PDIF + SCR1/2)   |        | 1/10 |
| 717501   | Satellite Digital Set-top Box FTA "zAs HD SAT" (FreeSat)   |        | 1/10 |
| <b>LTE FILTERS</b> <span style="float: right;"><b>LTE790</b></span>                                      |  |        |      |
| <b>"IEC" CONNECTOR</b>   |  |        |      |
| 404411   | Medium Rejection LTE Filter (MR) "IEC" 470...774MHz UHF (Ch21-58) Indoor (Bag B3)  |        | 10   |
| 404412   | High Rejection LTE Filter (HR) "IEC" 47...790MHz VHF/UHF (Ch21-60) Indoor (Bag B3)   |        | 10   |



▲ Ellipse



▲ DAT BOSS



▲ DiNova BOSS

▲ CampNova BOSS



▲ InNova BOSS



▲ 7525



▲ 717402

| Ref.                                  | Description   |                 |
|---------------------------------------|---|-----------------|
| <b>MODULATORS</b>                     |   |                 |
| ★ 585401                              | DiMod HD Encoder/Modulator DVB-T/DVB-C. 1i: HDMI/USB - 1 Mux(47...862MHz): CODFM/QAM (MPEG2/4) Configurable by WiFi   | 1               |
| 5858                                  | Domestic Modulator with Channel (VHF/UHF)   | 1               |
| 585801                                | Domestic Modulator with Channel (VHF/UHF) (UK Plug)   | 1               |
| <b>TERRESTRIAL AMPLIFICATION KITS</b> |   |                 |
|                                       |   | <b>LTE790</b>   |
| 438640                                | NanoKom Mast Amplifier 3i/1o "EasyF" VHFmix-UHF[dc]-SATmix[dc] with USOS + PicoKom PSU 1i/1o "EasyF" 12V-220mA (Refs.561601+5796) (Blister T1)                              | 8               |
| 438840                                | NanoKom Mast Amplifier 3i/1o "EasyF" BIII/UHF[dc]-FMmix-SATmix[dc] with USOS + PicoKom PSU 1i/1o "EasyF" 12V-220mA (Refs.561501+5796) (Blister T1)                          | 8               |
| <b>POWER SUPPLY UNITS</b>             |   |                 |
| 550402                                | Domestic Power Supply Unit 1i/2o "F": 5...862MHz 24V-130mA (Blister T1)   | 8               |
| <b>DOMESTIC AMPLIFIERS</b>            |   |                 |
| 5530                                  | Domestic Amplifier 1i/(2o+TV) "F": 5...30/47...862/950..2150MHz G(-9)/18/20dB Vo 105/110dBμV +Output TV Outlet G(-16)/10/12dB (Blister T1)                                  | 8               |
| 552240                                | Domestic Amplifier 1i/(2o+TV) "F": 47...790MHz G 20dB Vo 106dBμV + Output to a TV Outlet G 12dB (Blister T1)  | <b>LTE790</b>   |
| 5523                                  | Domestic Amplifier 1i/(4o+TV) "F": 47...862MHz G 16dB Vo 102dBμV + Output to a TV Outlet G 11dB (Blister T1)  | 8               |
| 552340                                | Domestic Amplifier 1i/(4o+TV) "F": 47...790MHz G 16dB Vo 102dBμV + Output to a TV Outlet G 11dB (Blister T1)  | <b>LTE790</b>   |
| 5531                                  | Domestic Amplifier 1i/6o "F": 47...862MHz G 16dB Vo 103dBμV (Blister T1)  | 8               |
| 552740                                | Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dBμV (Blister T1)  | <b>LTE790</b>   |
| 552741                                | Domestic Amplifier 1i/1o "IEC": 47...790MHz G 25dB Vo 112dBμV (UK Plug)   | <b>LTE790</b>   |
| 552840                                | Domestic Amplifier 1i/(2o+TV) "IEC": 47...790MHz G 20dB Vo 106dBμV + Output TV Outlet G 12dB (Blister T1)   | <b>LTE790</b>   |
| 545720                                | Domestic Amplifier 1i/(2o+TV) "IEC": 47...694MHz G 20dB Vs 110dBμV + Output TV Outlet G 12dB + Preamp.Pow. 12V-100mA (Blister T1)   | <b>LTE700</b>   |
| ★ 545801                              | Auto-LTE Domestic Amplifier 1i/(2o+TV) "F": 47...694/782MHz G 20dB Vo 101dBμV Auto-Adjustment + Output to a TV Outlet G 11dB + Preamplifier Powering 12V-100mA (Blister T1) | <b>AUTO LTE</b> |
| 5529                                  | Domestic Amplifier 1i/(4o+TV) "IEC": 47...862MHz G 16dB Vo 102dBμV + Output to a TV Outlet G 11dB (Blister T1)  | 8               |
| 552940                                | Domestic Amplifier 1i/(4o+TV) "IEC": 47...790MHz G 16dB Vo 102dBμV + Output to a TV Outlet G 11dB (Blister T1)  | <b>LTE790</b>   |
| <b>ATTENUATORS</b>                    |   |                 |
| 4315                                  | Adjustable Attenuator "IEC" Ø 9.5mm 1 to 25dB VHF/UHF DC Pass (Bag B1)  | 10              |
| <b>COMBINERS</b>                      |   |                 |
|                                       |   | <b>LTE790</b>   |
| ★ 433401                              | Mast Triplexer 3i/1o: VHF-UHF[dc]-UHF (Blister T2)  | 8               |
| ★ 434001                              | Combiner MATV-SAT 2i/1o: 5..790-950..2050MHz[dc] (Blister T1)   | 8               |
| <b>SPLITTERS</b>                      |   |                 |
| 4320                                  | Inductive Splitter "IEC" Ø 9.5mm 1 Male - 2 Females DC Pass 1 output (Bag B1)   | 10              |
| 4322                                  | Inductive Splitter "IEC" Ø 9.5mm 1 Female - 2 Males DC Pass All (Bag B1)  | 10              |
| 432803                                | Mini-Splitter 5...2400MHz "EasyF" 2W 4.3/4dB Indoor DC Pass O-I (Bag B3)  | 8               |
| 432902                                | Splitter 5...2400MHz "EasyF" 4W 9/7dB Indoor DC Pass All (Blister T1)   | 8               |
| 434103                                | Mini-Splitter 5...2400MHz "EasyF" 2W 4.3/4dB DC Pass All With Outdoor Mounting Case (Blister T1)  | <b>B</b>        |
| 434202                                | Splitter 5...2400MHz "EasyF" 4W 9/7dB DC Pass All With Outdoor Mounting Case (Blister T1)   | <b>B</b>        |
| <b>OUTLETS</b>                        |   |                 |
| 4335                                  | Bridged Outlet + Face Plate TV-R + Back Box for Surface Mountig Outlet (Blister T1)   | 8               |
| 4336                                  | White Back Box for Surface Mounting Outlet (Blister T1)   | <b>W</b>        |
| 4372                                  | End Outlet 5...862MHz, TV-FM 4.5-18dB w/o DC Pass+ Face Plate (Blister T1)  | 8               |
| 4373                                  | Through Outlet 5..862MHz, TV-FM 9.5-24dB w/o DC Pass+ Face Plate (Blister T1)   | 8               |
| 4301                                  | End Outlet Dplexed 5...2150MHz, TV/FM-SAT 0.6-1.5dB with DC Pass + Face Plate (Blister T1)  | 8               |



▲ 545801



▲ 552840



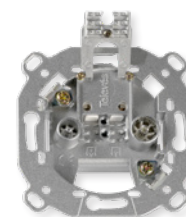
▲ 4315



▲ 434103



▲ 432803



▲ 4373



| Ref.                         | Description  |   |      |
|------------------------------|--|---|------|
| <b>COAXIAL</b>               |  |   |      |
| <b>COAXIAL CABLE</b>         |  |   |      |
| 4371                         | Coaxial Cable PVC Ø 6.6mm White 10m (Blister T2)   | Ⓜ | 10   |
| 435501                       | Coaxial Cable PVC Ø 6.6mm White 20m (Reel)   | Ⓜ | 1/20 |
| <b>CLASS A++ CABLE LEADS</b> |  |   |      |
| 3851                         | Coaxial Cable Lead "F" Compression 1.5m White (Bag B0)                                       | Ⓜ | 30   |
| 385101                       | Coaxial Cable Lead "F" Compression 3m White (Bag B0)   | Ⓜ | 20   |
| 385102                       | Coaxial Cable Lead "F" Compression 5m White (Bag B0)   | Ⓜ | 15   |
| 3852                         | Coaxial Cable Lead "IEC" Male-Female Compression 1.5m White (Bag B0)                         | Ⓜ | 30   |
| 385201                       | Coaxial Cable Lead "IEC" Male-Female Compression 3m White (Bag B0)                           | Ⓜ | 20   |
| 385202                       | Coaxial Cable Lead "IEC" Male-Female Compression 5m White (Bag B0)                           | Ⓜ | 15   |
| 3856                         | Coaxial Cable Lead "F" - "IEC" Male Compression 1.5m White (Bag B0)                          | Ⓜ | 30   |
| 385601                       | Coaxial Cable Lead "F" - "IEC" Male Compression 3m White (Bag B0)                            | Ⓜ | 20   |
| 385602                       | Coaxial Cable Lead "F" - "IEC" Male Compression 5m White (Bag B0)                            | Ⓜ | 15   |
| 3854                         | Coaxial Cable Lead "F" - "IEC" Female Compression 1.5m White (Bag B0)                        | Ⓜ | 30   |
| 385401                       | Coaxial Cable Lead "F" - "IEC" Female Compression 3m White (Bag B0)                          | Ⓜ | 20   |
| 385402                       | Coaxial Cable Lead "F" - "IEC" Female Compression 5m White (Bag B0)                          | Ⓜ | 15   |
| 3853                         | Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 1.5m White (Bag B0)               | Ⓜ | 30   |
| 385301                       | Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 3m White (Bag B0)                 | Ⓜ | 20   |
| 385302                       | Coaxial Cable Lead "F" Compression - "Quick F" "PRO EasyF" 5m White (Bag B0)                 | Ⓜ | 15   |
| 385501                       | Coaxial Cable Lead "F" Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)              | Ⓜ | 20   |
| 385701                       | Coaxial Cable Lead "F" Compression - "IEC" Male "PRO EasyF" 3m White (Bag B0)                | Ⓜ | 20   |
| 3858                         | Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 1.5m White (Bag B0)     | Ⓜ | 30   |
| 385801                       | Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 3m White (Bag B0)       | Ⓜ | 20   |
| 385802                       | Coaxial Cable Lead "IEC" Male Compression - "IEC" Female "PRO EasyF" 5m White (Bag B0)       | Ⓜ | 15   |
| <b>CABLE LEADS</b>           |  |   |      |
| 431001                       | Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 1.5m Grey (Blister T1)         | Ⓒ | 8    |
| 431002                       | Coaxial Cable Lead "IEC" Ø 9.5mm Elbowed Shielded Male-Female 2.5m Grey (Blister T1)         | Ⓒ | 8    |
| 4389                         | Coaxial Cable Lead "IEC" Ø 9.5mm Male-Female 1.5m White (Blister T1)                         | Ⓜ | 8    |
| 4312                         | Coaxial Cable Lead "IEC" Ø 9.5mm Male-Female 1.5m Black (Blister T1)                         | Ⓟ | 8    |
| 4311                         | Coaxial Cable Lead "IEC" Ø 9.5mm Male-Female 2.5m White (Blister T1)                         | Ⓜ | 8    |
| 4314                         | Coaxial Cable Lead "IEC" Ø 9.5mm Male-Female 2.5m Black (Blister T1)                         | Ⓟ | 8    |
| <b>COAXIAL CONNECTORS</b>    |  |   |      |
| 437401                       | "PRO EasyF" "IEC" Ø 9.5mm Connector Male Elbowed Class A+ Shielded (Bag B1)                  |   | 10   |
| 437501                       | "PRO EasyF" "IEC" Ø 9.5mm Connector Female Elbowed Class A+ Shielded (Bag B1)                |   | 10   |
| 437601                       | Set of "PRO EasyF" "IEC" Ø 9.5mm Connectors Male & Female Elbowed Class A+ Shielded (Bag B1) |   | 10   |
| ★ 437410                     | "IEC" Ø 9.5mm Connector Male Elbowed Shielded (Bag B1)                                       |   | 10   |
| ★ 437510                     | "IEC" Ø 9.5mm Connector Female Elbowed Shielded (Bag B1)                                     |   | 10   |
| ★ 437610                     | Set of "IEC" Ø9.5mm Connectors Male & Female Elbowed Shielded (Bag B1)                       |   | 10   |
| 4303                         | "IEC" Ø 9.5mm Connector Female Straight (Bag B1)   |   | 10   |
| 4305                         | "IEC" Ø 9.5mm Connector Male Straight (Bag B1)   |   | 10   |
| 4316                         | Set of "IEC" Ø9.5mm Connectors Male & Female Straight (Bag B1)                               |   | 10   |
| 4307                         | Adapter "F" Female - "F" Female (Bag B1)   |   | 10   |
| 4309                         | Joint Connector for Coaxial Cable (Bag B1)   |   | 10   |
| 4317                         | 2 "F" Connectors Threaded with O-ring for T-100 Cable (Bag B1)                               |   | 10   |
| 4306                         | "F" Connector Threaded with O-ring for T-100 Cable + Weatherproof Cap (Bag B1)               |   | 10   |
| <b>ACCESSORIES</b>           |  |   |      |
| 4360                         | Opened Clip for Coaxial Cable (25 units) (Bag B1)  |   | 10   |
| 2162                         | Coaxial Cable Stripper (Bag B2)  |   | 10   |



▶ 435501

Cable lead made with SK2000plus, a trishielded high screening cable. **A++**



▶ 3851xx



▶ 3852xx



▶ 3856xx



▶ 4310xx



▶ 437401



▶ 437501



▶ 437410



▶ 437510

| Ref.                           | Description  |   |     |
|--------------------------------|--|---|-----|
| <b>FIBER OPTICS CONNECTION</b> |  |   |     |
| 232621                         | F.O. Patch Cord Single-mode LSFH Pre-terminated "SC/APC" 2m (Bag B4) |   | 10  |
| <b>AUDIO/VIDEO CONNECTION</b>  |  |   |     |
| 4319                           | SCART Cable Male-Male 21 Pins 1.2m Black (Blister T1)                | B | 10  |
| 4377                           | SCART-2RCA Cable Male-Male 1.5m Black (Blister T1)                   | B | 10  |
| 494501                         | HDMI Cable Male-Male 1.5m Black (Blister T1)                         | B | 8   |
| 494502                         | HDMI Cable Male-Male 3m Black (Blister T2)                           | B | 10  |
| 494503                         | HDMI Cable Male-Male 5m Black (Blister T2)                           | B | 10  |
| 494505                         | HDMI Cable Male-Male 1.5m Black (Bag)                                | B | 100 |
| 495790                         | HDMI Rotating Cable 0-90° Male-Male 1.5m Black                       | B | 100 |
| <b>MAST ACCESSORIES</b>        |  |   |     |
| 4951                           | Mast Clamp Zinc+RCP Ø 25...45mm (Blister T1)                         |   | 8   |
| 4952                           | "U" Bolt for Mast Clamp Ø 25...45mm (Blister T1)                     |   | 8   |
| 4361                           | Guy Wire Mounting Kit Ø 45mm (Blister T2)                            |   | 10  |
| <b>DISPLAY BOARDS</b>          |  |   |     |
| 4390                           | Professional Blister Display Board                                   |   | 1   |



▲ 232621      ▲ 494501



▲ 4361

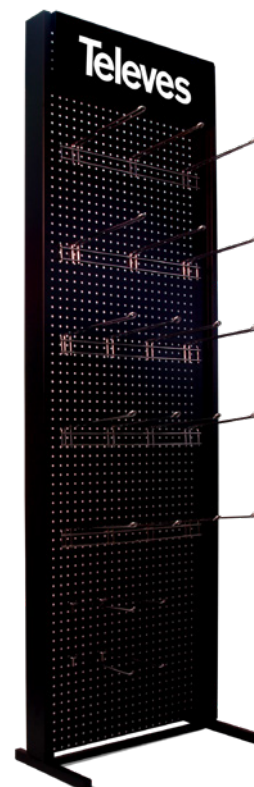


▲ 4951

▲ 4952



▼ 495790



▼ 4390

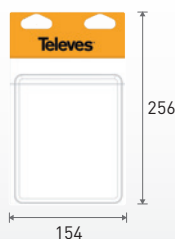
Packaging types (mm)

BLISTERS

T1



T2

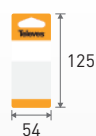


BAGS

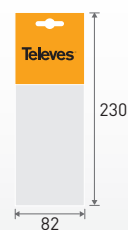
B0



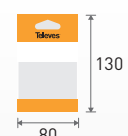
B1



B2



B3



B4



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