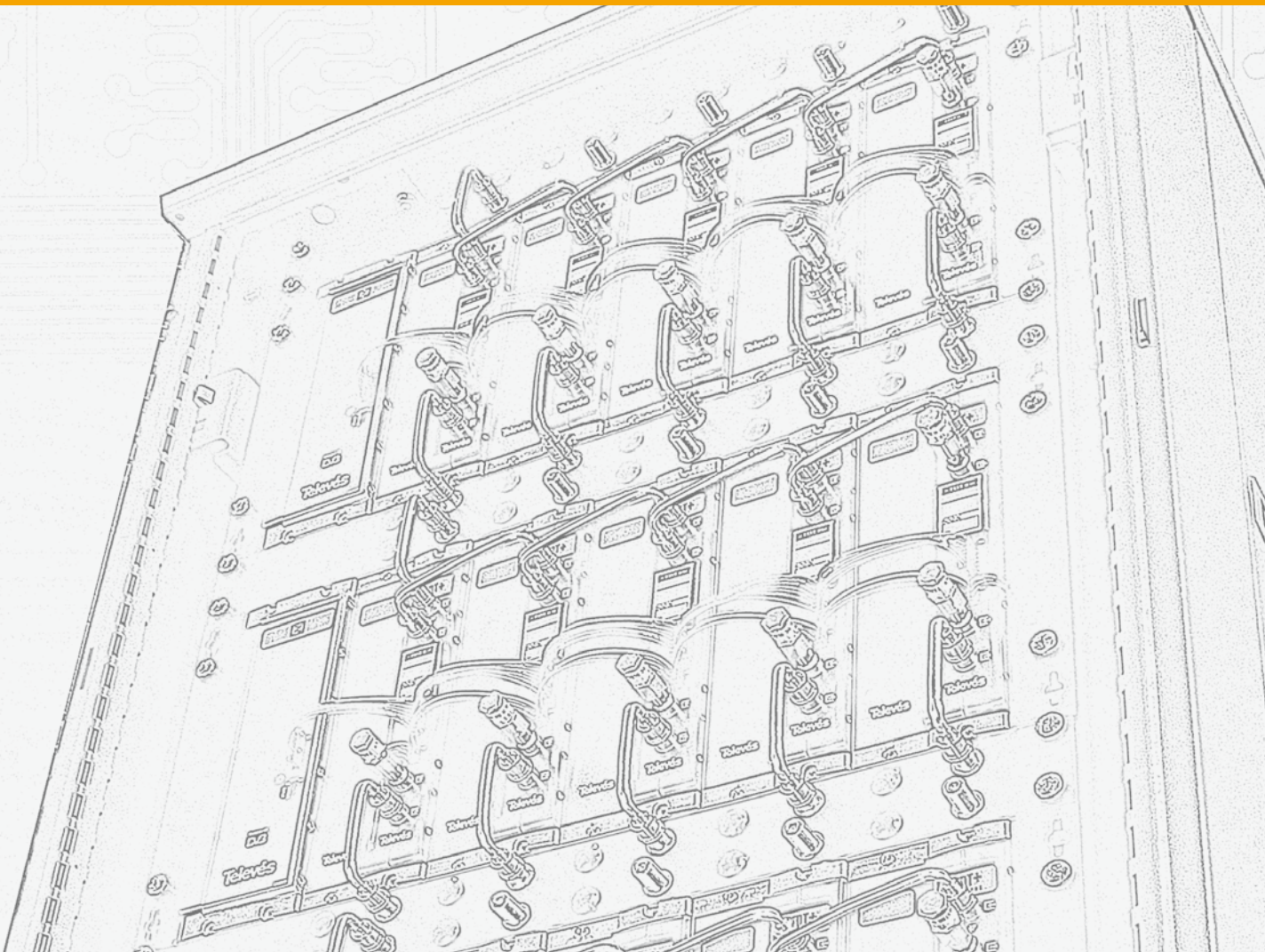


Televes®

# T05 HEADENDS



## SMATV

### IF/IF Processors (single/triple)

These IF processors can pick one (ref. 586301) or up to 3 satellite transponders (ref. 586401) in the IF band, process them and shift them in frequency within the same band.

- ▶ High input dynamic margin.
- ▶ Configurable parameters.
- ▶ CDC and TSuite compatible.



QR-00201



▲ 586301

| REF.   | DESCRIPTION                                       |
|--------|---|
| 586301 | IF/IF Single satellite processor (1 transponder)  |
| 586401 | IF/IF Triple satellite processor (3 transponders) |

| CONNECTIONS                                     |
|---|
| 1 IF satellite input                            |
| 2 IF satellite output                           |
| 3 Connector for programmer or PC with TSuite SW |
| 4 Power supply BUS connection                   |
| 5 ON/OFF LED                                    |
| 6 Control BUS                                   |
| 7 Processed IF input                            |
| 8 Processed IF output                           |

| Reference       | 586301 and 586401        |                          |     |                               | 586301                    | 586401 |           |
|-----------------|--------------------------|--------------------------|-----|-------------------------------|---------------------------|--------|-----------|
| SATELLITE Input | Input frequency          | <input type="checkbox"/> | MHz | 950 ... 2150                  | Input loop through losses | dB     | < 1,5     |
|                 | Frequency steps          |                          |     | <1,5                          | Typ. Return losses        |        | > 10      |
|                 | Input level              |                          | dB  | 60 to 89                      | Impedance                 | ohm    | 75        |
|                 | Bandwidth input filter   | <input type="checkbox"/> | MHz | 10 ... 72<br>(in 2 MHz steps) |                           |        |           |
| RF Output       | Output frequency         | <input type="checkbox"/> | MHz | 950 ... 2150                  | Through losses            | dB     | < 1,5     |
|                 | Frequency steps          |                          |     | <1,5                          | Typ. Return losses        |        | > 10      |
|                 | Output level             | <input type="checkbox"/> | dB  | 80 ± 5 (programmable)         | Impedance                 | ohm    | 75        |
|                 | Output level attenuation | <input type="checkbox"/> | dB  | > 15                          |                           |        |           |
| General         | LNB powering             | <input type="checkbox"/> | Vdc | 13V/17V/ OFF - 22KHz (ON/OFF) | Max. consumption          | mA     | 550 (5V)  |
|                 | Powering                 |                          | Vdc | 5/15/18                       |                           |        | 50 (15V)  |
|                 | Dimensions (W x H x D)   |                          | mm  | 50 x 197 x 163                | Operating temperature     | °C     | 0 ... +40 |
|                 |                          |                          |     |                               | Protection Index          |        | IP20      |

(\*) Maximum available current to power a LNB; Note: Remotely configurable with the CDC from version 2.12 or later; : Programmable

MATV

## ASI - COFDM Transmodulator



QR-A00063

The ASI to COFDM transmodulator takes a TS-ASI signal (according to the EN 50083-9 standard) to convert it into COFDM format and subsequently to the preferred output channel (UHF or VHF and with a maximum bandwidth of 8 MHz) by means of an agile up-converter.

- ▶ Low phase noise.
- ▶ Configurable parameters.



▲ 5540

| REF. | DESCRIPTION                            |
|------|--|
| 5540 | ASI-COFDM Transmodulator (47...862MHz) |

| CONNECTIONS                                     |
|---|
| 1 ASI input                                     |
| 2 N/A   |
| 3 Connector for programmer or PC with TSuite SW |
| 4 Power supply BUS connection                   |
| 5 ON/OFF LED                                    |
| 6 Control BUS (by-pass only)                    |
| 7 RF Input                                      |
| 8 RF Output + 1 COFDM channel                   |

| Reference       | 5540                                      |  |                         |                         |                 |                          |                          |                 |       |
|-----------------|---|--|-------------------------|-------------------------|-----------------|--------------------------|--------------------------|-----------------|-------|
| ASI Input       | In accordance with EN 50083-9 standard    |  |                         |                         |                 |                          |                          |                 |       |
| COFDM Modulator | Modulation format                         |  | QPSK, 16QAM, 64QAM      |                         | Scrambling      |                          | DVB EN 300744            |                 |       |
|                 | Guard interval                            |  | 1/4, 1/8, 1/16, 1/32    |                         | Interleaving    |                          | DVB EN 300744            |                 |       |
|                 | FEC                                       |  | 1/2, 2/3, 3/4, 5/6, 7/8 |                         | Cell_id         | <input type="checkbox"/> | Selectable               |                 |       |
|                 | Bandwidth                                 |  | MHz                     | 7/8                     |                 | Spectral inversion       | <input type="checkbox"/> | normal/inverted |       |
| UP- Converter   | Output frequency <input type="checkbox"/> |  | VHF                     | MHz                     | 177,5 ... 226,5 |                          | Adjustable output level  | dB              | 15    |
|                 |   |  | UHF                     | MHz                     | 474 ... 858     |                          | Typ. Through losses      |                 | < 1,5 |
|                 | Frequency steps <input type="checkbox"/>  |  | KHz                     | 125 / 166,66            |                 | Input/Output connectors  | type                     | F female        |       |
|                 | Typ. Phase noise.                         |  | dBc/Hz                  | 90 (10KHz)              |                 | Impedance                | ohm                      | 75              |       |
| General         | Output level <input type="checkbox"/>     |  | dBμV                    | 65 ... 85               |                 |                          |                          |                 |       |
|                 | Consumption                               |  | mA                      | 360 (5Vdc); 160 (15Vdc) |                 | Protection index         |                          | IP20            |       |
|                 |   |  |                         | Dimensions (W x H x D)  |                 | mm                       | 50 x 197 x 163           |                 |       |

Note: Specifications valid for a maximum room temperature of 40°C; : Programmable

### DIGISlot Series: Modulator + Encoders



QR-A00127

These units can generate one or two (Twin version) COFDM Multiplex from two types of signal sources: A/V, S-VIDEO, RGB and/or HDMI.

The following configurations for the inputs are possible (maximum 2 modules):

- ▶ Module for the addition of 1 A/V source (Ref.554801).
- ▶ Module for the addition of 2 A/V sources (Ref.554812).
- ▶ Module for the addition of 1 HDMI source (Ref.554813).
- ▶ Module for the addition of 2 HDMI sources (Ref.554804).

Depending on the type of installation to be done:

- ▶ Installation on the wall: Ref. 554511/554502.
- ▶ Installation in 19" rack: Ref. 554611/554610/554602.

This device could be used to distribute DTT programmes (HD or SD) in a coaxial network, overcoming typical distance limitations for A/V or HDMI signals.

- ▶ **DVB (COFDM) output.**
- ▶ **High quality modulation MER>42dB.**
- ▶ Processing and insertion of PSI/SI tables.
- ▶ **LCN (Logical Channel Number).**
- ▶ **IP output.**
- ▶ **Web server/** Configurable from front panel.
- ▶ **Twin version (ref. 554502 / 554602):** the modulator can generate two output multiplex/channels using signals coming from two slot-in encoders. Input signals of the same encoder can be generated into different output channels.



▲ 554511



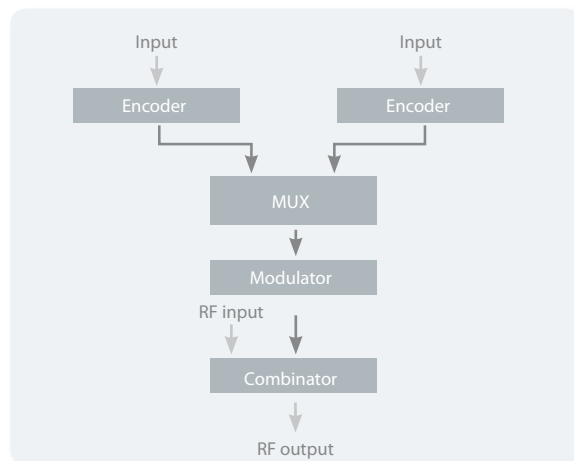
▲ 554611

| REF.   | DESCRIPTION   |
|--------|---|
| 554511 | COFDM modulator wall mount                          |
| 554502 | TWIN COFDM modulator wall mount                     |
| 554611 | COFDM modulator 19" rack mount                      |
| 554610 | ISDB-T/Tb modulator 19" rack mount                  |
| 554602 | TWIN COFDM modulator 19" rack mount                 |
| 554801 | 1 input A/V CVBS - MPEG2 encoder                    |
| 554812 | 2 inputs A/V YPbPr / S-Video / CVBS - MPEG2 encoder |
| 554813 | 1 input HDMI - MPEG2/4 encoder                      |
| 554804 | 2 inputs HDMI - MPEG4 encoder                       |

|                 | Modulators |                  |              |        |
|-----------------|------------|------------------|--------------|--------|
|                 | 1 MUX      |                  | 2 MUX (TWIN) |        |
| Encoders        | 554511     | 554611 / 554610  | 554502       | 554602 |
| 554801 - 1 A/V  | ✓          | ✓                | ✓            | ✓      |
| 554812 - 2 A/V  | ✓          | ✓                | ✓            | ✓      |
| 554813 - 1 HDMI | ✓          | ✓                | ✓            | ✓      |
| 554804 - 2 HDMI | ✓          | 3 HD inputs max. | ✓            | ✓      |

| Reference |                        | 554511<br>554502 | 554611<br>554602        | 554610       |
|-----------|------------------------|------------------|-------------------------|--------------|
| DVB-T     | Standard               | EN300744         |                         | ARIB STD-B31 |
|           | FFT modes              | 2K, 8K           |                         |              |
|           | Bandwidth              | MHz              | 6, 7 and 8              | 6            |
|           | Constellation          |                  | QPSK, 16QAM, 64QAM      |              |
|           | Guard interval         | µS               | 1/4, 1/8, 1/16, 1/32    |              |
|           | FEC                    |                  | 1/2, 2/3, 3/4, 5/6, 7/8 |              |
|           | MER                    | dB               | ≥ 42                    |              |
|           | Frequency range        | MHz              | 30 ...960               |              |
|           | Output level           | dBµV             | 81...97                 |              |
| General   | Mains voltage          | Vac              | 220 ± 10%               | 100...240    |
|           | Power consumption      | W                | 25                      |              |
|           | Dimensions (W x H x D) | mm               | 360x280x50              | 480x44x300   |

#### BLOCK DIAGRAM

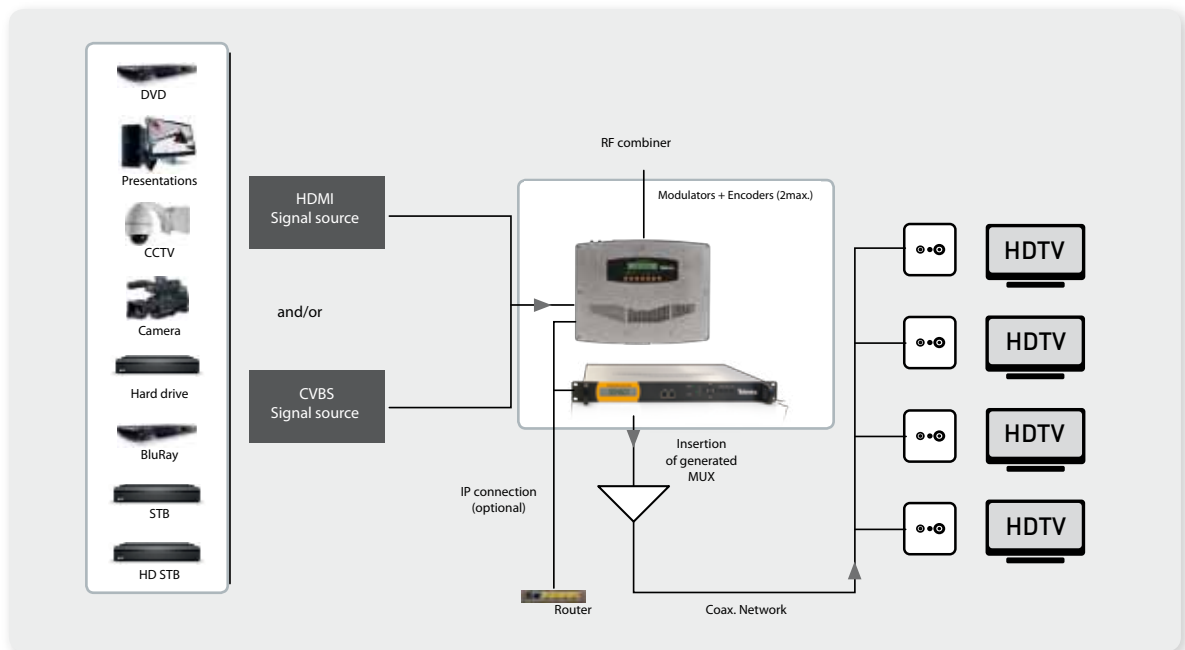


MATV

DIGISlot Series: Modulator + Encoders



| Reference | 554801             | 554812                            | 554813                      | 554804   |
|-----------|--------------------|-----------------------------------|-----------------------------|--|
| Video     | Encoder            | MPEG-2 MP@ML (4:2:0)              |                             | H.264/AVC High Profile Level 4.0 (HD)                                      |
|           | Input sources      | CVBS x 2                          | (CVBS / YPbPr / S-Video) x2 | HDMI x 2 (1 active and the other backup)   HDMI x 2 (2 actives)            |
|           | Resolution         | 720 x 576 (PAL), 720 x 480 (NTSC) |                             | 1920x1080_60i, 1920x1080_50i, 1280x720_50p<br>1920x1080_60p, 1920x1080_50p |
| Audio     | Encoder            | MPEG1 Layer II                    |                             |  |
|           | Input sources      | Stereo audio x 2                  | Stereo audio x 4            | HDMI x 2   |
|           | Sampling frequency | 48 KHz                            |                             |  |
|           | Binary rate        | 128 Kbps                          |                             |  |





## MATV

### DIGIMod Series: Domestic Encoder/ Modulator

**DigiMod**



QR-A00268

554901 encoder & modulator (home use) is a consumer product which allows audio/video signal input in TV distributions with applications in home entertainment, surveillance control, hotel digital signage, shops etc.

- ▶ It is an all-in-one device integrating MPEG2 encoding and DVB-T modulating to convert video signals to DVB-T RF out for distribution network.
- ▶ The signals source could be from satellite receivers, closed-circuit TV, cameras, Blue-ray players, and antenna etc.
- ▶ Its output signal is to be received by a DVB-T standard TV, DVB-T STB etc.



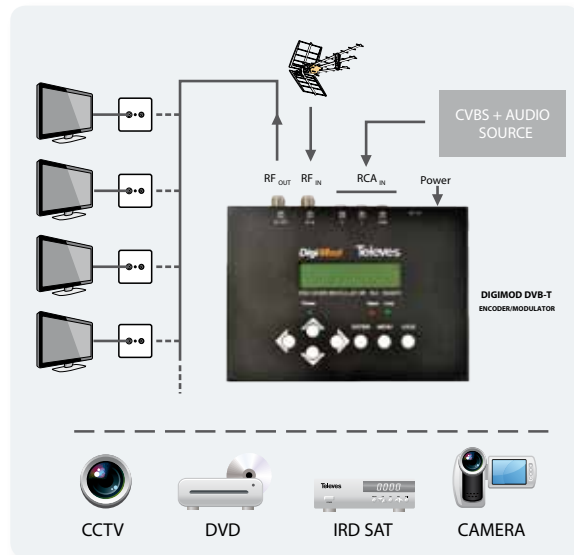
▲ 554901

| REF.   | DESCRIPTION  |
|--------|--|
| 554901 | Encoder / Modulator DVB-T wall mount<br>1 input A/V CVBS - MPEG2 |

| Reference                | 554901                   |   |
|--------------------------|--------------------------|---|
| <b>Encoding Section</b>  |                          |   |
| Video                    | Encoding                 | MPEG-2 MP@ML(4:2:0)                     |
|                          | Interface                | CVBS *1                                 |
|                          | Resolution               | 720x576_50i (PAL)<br>720x480_60i (NTSC) |
|                          | Bit rate                 | Mbps 1.000~19.500                       |
| Audio                    | Encoding                 | MPEG1 Layer II                          |
|                          | Interface                | 1*Stereo /mono                          |
|                          | Sample rate              | KHz 48                                  |
|                          | Bit rate                 | kbps 64, 96, 128, 192, 256, 320, 384    |
| <b>Modulator Section</b> |                          |   |
| Standard                 | DVB-T COFDM              |   |
| Bandwidth                | MHz                      | 6, 7, 8                                 |
| Constellation            | QPSK, 16QAM, 64QAM,      |   |
| Code rate                | 1/2, 2/3, 3/4, 5/6, 7/8. |   |
| Intervalo de guarda      | μS                       | 1/32, 1/16, 1/8, 1/4.                   |
| Transmission Mode        | 2K, 8K                   |   |
| MER                      | dB                       | ≥42                                     |
| Transmission Mode:       | MHz                      | 30~999, step 1KHz                       |
| RF output level          | dBm                      | -16~ -36 (81~97 dBμV), step 0.1dB       |
| <b>General</b>           |                          |   |
| Mains                    | Vdc                      | 12                                      |
| Dimensions (W x H x D)   | mm                       | 140 x 110 x 43                          |
| Weight                   | kg                       | < 1                                     |
| Operation temperature    | °C                       | 0 ... 45                                |



▲ 554901



AMPLIFIERS

Amplifiers



- ▶ **Low second and third order distortion** that allows high output level (typical values of 120dB $\mu$ V).
- ▶ **Include two inputs**, which allows the amplifier to combine channels from two different sources (two different headends).
- ▶ The ref. 5075 incorporates a **test output**.



▲ 5865



▲ 5075

| REF. | DESCRIPTION                         |
|------|-------------------------------------|
| 5865 | IF Amplifier (SAT) (950...2150 MHz) |
| 5075 | MATV Amplifier (47...862 MHz)       |

| CONNECTIONS |                             |
|-------------|-----------------------------|
| 1           | RF Output                   |
| 2           | TEST Output (-30 dB)        |
| 3           | Power supply BUS connection |
| 4           | Attenuator                  |
| 5           | ON/OFF LED                  |
| 6           | RF Input 1                  |
| 7           | RF Input 2                  |

| Reference    |                            | 5865       |                |
|--------------|----------------------------|------------|----------------|
| IF amplifier | Frequency range            | MHz        | 950...2150     |
|              | Gain                       | dB         | 35 ▲ 40        |
|              | Max. Output level          | dB $\mu$ V | 123            |
|              | Typ. IF through losses     | dB         | < 1            |
|              | Typ. IF return losses FI/O | dB         | 10             |
| MATV through | Frequency range            | MHz        | 47...862       |
|              | Through losses             | dB         | 1.5            |
|              | Typ. Return losses         | dB         | > 7.5          |
| General      | Powering                   | Vdc        | 15             |
|              | Consumption                | mA         | 200            |
|              | Protection index           |            | IP20           |
|              | Dimensions (W x H x D)     | mm         | 50 x 197 x 163 |

| Reference                |                    | 5075           |     |
|--------------------------|--------------------|----------------|-----|
| Frequency range          | MHz                | 46...862       |     |
| Gain                     | dB                 | 45 $\pm$ 2     |     |
| Output level attenuation | dB                 | 0 - 20         |     |
| Output level             | DIN45004B          | dB $\mu$ V     | 120 |
|                          | IMD3 (-60dB, 2CH)  |                | 117 |
|                          | IMD2 (-60dB, 2CH)  |                | 111 |
|                          | CTB (-60dB, 42CH)  |                | 105 |
|                          | CSO (-60dB, 42CH)  |                | 105 |
|                          | XMOD (-60dB, 42CH) | 105            |     |
| Noise figure             | dB                 | < 10           |     |
| Powering                 | Vdc                | 15             |     |
| Consumption              | mA                 | 810            |     |
| Protection index         |                    | IP20           |     |
| Dimensions (W x H x D)   | mm                 | 50 x 197 x 163 |     |

## POWER SUPPLY UNIT, HEADEND MANAGER

### Power supply unit

Switched mode power supply with high performance.



QR-A00117

| Reference                 |     | 502905    |      |      |      |
|---------------------------|-----|-----------|------|------|------|
| Mains voltage             | Vac | 230 ± 15% |      |      |      |
| Mains frequency           | Hz  | 50/60     |      |      |      |
| Maximum power consumption | W   | 134       |      |      |      |
| Output voltages           | Vdc | 5         | 15   | 18   | 24   |
| Maximum current           | A   | 6,6       | 4,2* | 0,8  | 0,55 |
| Maximum available power   | W   | 33        | 63*  | 14,4 | 13,2 |
| Protection index          |     | IP20      |      |      |      |

(\*): When the 24 and 18 Vdc voltages are being used, it will become necessary to deduct the power being used from the 63W available at 15 Vdc.



▲ 502905

| REF.   | DESCRIPTION                    |
|--------|--------------------------------|
| 502905 | T05 Switched mode power supply |

#### CONNECTIONS

- 1 Output connector with three voltages (5,15, 18 Vdc)
- 2 ON/OFF LED
- 3 24Vdc output connector
- 4 Mains connector (196-264 Vac)

### CDC headend manager

The CDC headend manager allows the remote management of a T05 headend or AVANT HD, it can either be done via an external modem or a locally plugged in PC.

The purpose of the headend manager:

- ▶ Allow to configure and monitor any of the controllable devices in the headend from one point with a SW compatible with Windows.

The CDC system will allow you to, amongst other things, the following:

- ▶ Monitor and/or configure remotely any of the settings in the headend.
- ▶ Upload of a new configuration with the press of a button, avoiding the configuration of the modules one by one.



QR-A00046



▲ 5059

| REF. | DESCRIPTION         |
|------|---------------------|
| 5059 | CDC Headend manager |

#### CONNECTIONS

- 1 Dial-up modem connection
- 2 IP/PC modem connection
- 3 Power supply BUS connection
- 4 Status LED (ON/OFF/Quick-Slow flashing)
- 5 Control BUS



REMOTE CONTROL

GSM modem for the CDC (Ref. 5059)



QR-A00069

When connected to the module CDC will allow the management of the headends via GSM/GPRS.



▲ 5836

| Frequency bands |                |                |                 |                    |
|-----------------|----------------|----------------|-----------------|--------------------|
| Mode            | Tx, Freq (MHz) | Rx, Freq (MHz) | Channels (ARFC) | Tx-Rx offset (MHz) |
| E-GSM-900       | 890,0-914,8    | 935,0-959,8    | 0-124           | 45                 |
|                 | 880,2-889,8    | 925,2-934,8    | 975-1023        | 45                 |
| GSM-850         | 824,2-848,8    | 969,2-893,8    | 128-251         | 45                 |
| DCS-1800        | 1710,2-1784,8  | 1805,2-1879,8  | 512-885         | 95                 |
| PCS-1900        | 1850,2-1909,8  | 1930,2-1989,8  | 512-810         | 80                 |

| REF. | DESCRIPTION                           |
|------|---------------------------------------|
| 5836 | GSM modem for the CDC headend manager |

| CONNECTIONS   |
|---|
| 1 SIM slot  |
| 2 Serial port communications connector (Tx/Rx) for the communication with the CDC (ref. 5059) |
| 3 Power supply BUS connection   |
| 4 PWR and STATUS LEDs   |
| 5 GSM antenna   |

| Reference           |                                      |   |   | 5836       |
|---------------------|--------------------------------------|---|---|------------|
| GSM radio interface | Transmission power                   | GSM 850/900   | dBm   | 33         |
|                     |                                      | DCS 1800/PCS 1900   |   | 30         |
|                     | Sensitivity reference                | GSM 850/900   |   | - 107      |
|                     |                                      | DCS 1800/PCS 1900   |   | - 106      |
|                     | GSM antenna                          | Potencia de entrada   | W   | > 2 (pico) |
|                     |                                      | ROE absoluto  |   | ≤ 10:1     |
|                     |                                      | ROE recomendado   |   | ≤ 2:1      |
|                     |                                      | Ganancia (ref. dipolo λ/2)  | dBi   | 1,5 ... 3  |
|                     |                                      | Impedancia  | ohm   | 50         |
|                     | Bandwidth                            |   | EGSM  | MHz        |
| GSM                 |                                      |   | 150   |            |
| DCS                 |                                      |   | 170   |            |
| PCS                 |                                      |   | 140   |            |
| Serial interface    | Standard AT commands                 | Set of AT Hayes standard commands.<br>ETSI GSM 07.07 specification for AT commands and specific GPRS commands.<br>GSM 07.05 specification of AT commands for SMS and CBS (Cell Broadcast Service).<br>Commands compatible with FAX Class 1. |   |            |
|                     | Maximum baud rate (UART RS232 TX/RX) | CMOS levels; 115,2 Kbps   |   |            |
| General             | Power requirements                   | W   | 1,65 W ( 330 mA @ 5V) with active call<br>0,25 W ( 50 mA @ 5V) with the modem registered in the GSM network in standby waiting for a call |            |
|                     | Operating temperature (max.)         | °C  | 45  |            |
|                     | Protection index                     |   | IP20  |            |
|                     | Dimensions (W x H x D)               | mm  | 50 x 197 x 163  |            |

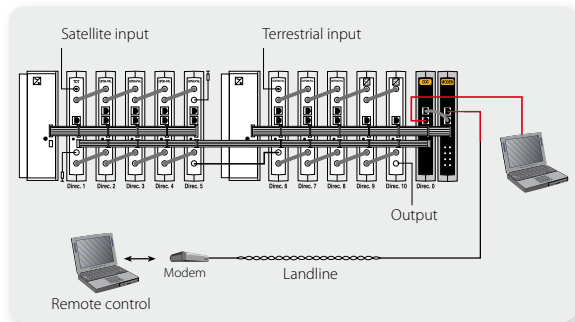
## REMOTE CONTROL, PROGRAMMER

### IP modem for the CDC (Ref. 5059)



QR-A00070

When connected to the CDC module will allow the management of the headends via IP.



▲ 5837

| REF. | DESCRIPTION                 |
|------|-----------------------------|
| 5837 | IP modem for the CDC module |

| CONNECTIONS                   |
|-------------------------------|
| 1 Ethernet                    |
| 2 CDC connection              |
| 3 Power supply BUS connection |

| Reference        |                                   | 5837  |                               |  |
|------------------|-----------------------------------|---|-------------------------------|--|
| Serial interface | Serial interface                  | RS232 (TX/RX) levels  |                               |  |
|                  | Serial port characteristics       | Range 150-115200bps; Parity: None, even, odd 7 or 8 bits/byte                       |                               |  |
| Routing buffers  | Size                              | 12 Kbytes × 2   |                               |  |
|                  | Ethernet interface                | 10/100 Base T Ethernet, standard magnetics  |                               |  |
| EM202-00 module  | Serial interface and IN/OUT lines | CMOS-level; TX, RX, and 4 additional lines I/O with RTS,CTS,DTR and DSR implemented |                               |  |
|                  | Size of the routing buffers       | 12 Kbytes × 2   |                               |  |
|                  | Max. current for IN/OUT lines     | mA  | 10                            |  |
|                  | Current consumption (5 Vdc)       |   | 230 (in 100Base T mode)       |  |
|                  | Operating temperature             | °C  | -10 ... +70                   |  |
| Connectors       | CDC interface                     | type  | RJ45 connector (RS232, TX/RX) |  |
|                  | Ethernet interface                |   | RJ45 Ethernet 10/100 BaseT    |  |
| General          | Max. Consumption                  | W   | 2,5                           |  |
|                  | Operating temperature             | °C  | 45                            |  |
|                  | Protection index                  |   | IP20                          |  |
|                  | Dimensions                        | mm  | 50 × 197 × 163                |  |

### Universal programmer



QR-A00080

Programmer to allow the configuration and setting of the programmable modules (T.OX, T05, Avant...).

- ▶ **Built-in memory for the storage, upload and cloning of configurations.**
- ▶ **Adjustment of the brightness of the display** in order to suit the light conditions in the installation.
- ▶ **Easy to use and intuitive.**
- ▶ **Includes 1m cable lead with 2 RJ45 connectors.**



▲ 7234

| REF. | DESCRIPTION          |
|------|----------------------|
| 7234 | Universal programmer |

SOFTWARE, SUPORTS AND ENCLOSURES

TSuite software



QR-A00150

Software that allows the configuration and setting of any of the programmable units (except for the Avant 3).

Includes:

- ▶ **TSuite software.**
- ▶ **Cable for the connection of the PC to the CDC unit (RS232 - RJ45).**
- ▶ **USB - COM (RS232) adaptor (ref. 5838)**
- ▶ **USB extender.**



▲ 216801

| REF.   | DESCRIPTION     |
|--------|-----------------|
| 216801 | TSuite software |

Supports and enclosures



QR-A00142

Mounting accessories to allow the installation of T05 modules on the wall and inside cabinets or racks.

| REF.   | DESCRIPTION   |
|--------|---|
| 5071   | Wall mount 498 mm (1 PSU + 10 T05/T12)  |
| 5239   | Wall mount 560 mm (1 PSU + 12 T05 /T12)   |
| 5301   | 19" rack frame 5U (1 PSU + 10 T05 /T12)   |
| 5072   | Lockable cabinet 498 mm (1 PSU + 10 T05 /T12)<br>Dimensions (W x H x D): 610 x 295 x 235<br>Lockable cabinet with forced ventilation 498 mm |
| 507202 | (1 PSU+10 T05 /T12)<br>Dimensions (W x H x D): 610 x 295 x 235  |
| 5069   | Lockable cabinet 648 mm (1 PSU + 14 T05 /T12)<br>Dimensions (W x H x D): 760 x 295 x 235  |
| 506901 | Lockable cabinet 648 mm (2 PSU + 10 T05 /T12)<br>Dimensions (W x H x D): 760 x 295 x 235  |
| 5334   | Ventilation Unit for ref. 5069 and 506901   |
| 5235   | Lockable cabinet 948 mm (1 PSU + 22 T05 /T12)<br>Dimensions (W x H x D): 1060 x 295 x 235   |
| 5333   | 19" rack 15U, door, ventilation and wheels<br>Dimensions (W x H x D): 540 x 740 x 400   |
| 5331   | 19" rack 28U, door, ventilation and wheels<br>Dimensions (W x H x D): 600 x 1400 x 600  |
| 5332   | 19" rack 37U, door, ventilation and wheels<br>Dimensions (W x H x D): 600 x 1800 x 600  |
| 507312 | T12/T05 Blank plate 35mm-5U   |



▲ 5331/5332/5333

*The number of modules indicated it is exclusively based on the available space; but the number of modules that can be installed could be limited by other factors like power consumption or operating temperature.*



▲ 5334



▲ 5069/506901/5072

▲ 5334



▲ 5071/5239



▲ 5301

## ACCESSORIES

### Accessories



QR-A00045

| REF.   | DESCRIPTION   |
|--------|---|
| 5073   | T03/T05 Blank plate 35mm-5U                                   |
| 507312 | T12/T05 Blank plate 35mm-5U                                   |
| 4061   | F terminal load with DC block                                 |
| 4071   | DC F block  |
| 9924   | 3 RCA – RJ45 1.5m cable lead                                  |
| 4947   | Coaxial atmospheric surge arrester                            |
| 422601 | Patch cable powering T.0X → T12/T05/T03 or T12/T05/T03 → T.0X |
| 422602 | Patch cable control BUS T.0X → T05 or T05 → T.0X; 1 m         |



▲ 5073



▲ 507312



▲ 4061



▲ 4071



▲ 4947



▲ 422601



▲ 422602

### Ref. 586301/586401/5865/5059

### IF/IF single and triple processors

- **Processing of 15 satellite transponders to new frequencies, in order to have all of them in one polarity.** Afterwards, the output is amplified with ref.5865 (IF amplifier).

