# Televes®

# IP Modulator Encoder A/V - IP or IP - QAM (Annexes A and B)

## Two modules in one

Encoder/Modulator equipped with 2 inputs - HDMI and component video - and with two modes of operation: as an AV - IP / RF Encoder converting Audio/Video signals into an IP stream and multiple RF signals (DVB-C), and as an AV/IP-RF Encoder converting Audio/Video signals and IP streaming services into one multiple RF channel (DVB-C).

They support Dolby® Digital audio and include the Closed Captioning service, as well as an optional EAS interface with ASI input and output

| | |
|---|---|
| **Ref.** | 563805 |
| **EAN13** | 8424450186220 |

## Packaging info

| | |
|---|---|
| **Box** | 1 pcs. |

## Physical data

| | |
|---|---|
| **Net weight** | 1,500.00 g |
| **Gross weight** | 1,500.00 g |

## Highlights

- Perfect image and audio synchronization

- Compatible with multiple formats, resolutions, and TV set sizes

- Editing of all the modulation and encoding parameters

- Configurable via web interface or PCT5.0 programmer

- High output power without the need for extra amplification

- Multi-standard output format

- Excellent output quality (MER>40 dB)

- Device monitoring and signal status LED diodes

- Energy-efficient thanks to their low power consumption

- Integrated RF combiner and Ethernet switch

- Remote firmware update

- Configuration via a web interface embedded in the encoder

## Main features

- Multiple input signal types: HDMI, YPbPr, and SPdIf audio

- Up to 1080p MPEG-2 and H.264 coding

- Real-time Dolby® Digital audio encoding

- Optional EAS interface with L/R composite video and audio

- Integrated ASI Input/Output for an easy management of the EAS signal

## Technical specifications

| INPUT | | |
|---|---|---|
| Video | Connectors | 2 sets - 3 x RCA (Y, Pb, Pr) |
| Audio | Connectors | 2 sets - 2 x RCA for Analog Audio (L, R)<br>2 sets - 1 x RCA for Digital Audio<br>2 sets - 1 x Toslink for Digital Audio (Optical) |
| Video + Audio | Connectors | 2 sets - 1 x HDMI |
| Closed Captioning | Connectors | 2 sets - 1 x HDMI |
| ASI | Connectors | 1x BNC |
| | Format | DVB-ASI |
| | Standard | ETSI EN 50083-9 |
| IP | Connectors | 2x RJ45 (Switch Gigabit) |
| | Format | SPTS or MPTS (UDP/RTP) |

| ENCODING PROFILE | | | |
|---|---|---|---|
| Video | Output format | | MPEG-2 / H.264(4.0, 4.1, 4.2, 5.1, 5.2) |
| | Input Resolution | | 480i, 480p, 576i, 576p, 720p, 1080i &1080p<br>Supports auto-scan for input resolution (1) |
| | Input Framerate | | 50Hz, 60Hz (all input Resolutions), 24Hz (only 1080p Input Resolution) |
| | Output Resolution | | Same as input (Auto) or maximum selected output resolution |
| | Output Aspect Ratio | | 4:3, 16:9, and pass through |
| | Output GOP | | 10, 12, 15, 16, 18, 20, 24 or 30 |
| Audio | Output format | | Dolby® Digital AC-3 or MPEG1 Layer 2 |
| | Output Sampling rate | kHz | 48, 44.1 |
| | Output bitrate | | Variable |
| Closed captioning | Format | | EIA-608, EIA-708 |

| OUTPUT | | | |
|---|---|---|---|
| QAM | Connectors | | 1x "F" Female |
| | Modulation standards | | ITU-A: 16, 32, 64, 128, 256, 512, 1024 QAM |
| | | | ITU-B: 64, 256 QAM |
| | Frecuency Range | MHz | 5 - 1002 (supports return path applications) |
| | Channel plans | | CATV STD, T_CHANNELS, Broadcast, Frequency |
| | Max output level | dBmV | +55 (+43 with loop-through) |
| | MER | dB | >40 (typ) |
| | Spurious | dBc | -60 |
| ASI | Connectors | | 1x BNC |
| | Format | | DVB-ASI |
| IP | Connectors | | 2x RJ45 (Switch Gigabit) |
| | Format | | SPTS or MPTS (UDP/RTP) |

| PSI | |
|---|---|
| Transport Stream ID | Editable |
| Original Network ID | Editable |

| | | |
|---|---|---|
| Network ID | | Editable |
| Virtual Channel Number | | Editable |
| NIT Version | | Manual / Automatic |
| SDT Version | | Manual / Automatic |
| Network Name | | Editable |
| Service PID | | Editable |
| Service Name | | Editable |
| Service ID | | Editable |
| **GENERAL** | | |
| Power supply | Vdc | 24 |
| Consumption | W | <20,4 |
| Operating temperature | ºF / ºC | 32 to 95 / 0 to 35 |

(1) The output resolution is the same as the input signal source.