



DESCRIPTION

The MP-ED SERIES professional MPEG-2 encoder/decoder supports a wide range of DVB transmission (terrestrial/satellite/cable) and digital microwave distribution applications. It features great flexibility and a very high-quality video signal even at low bitrates.

The MP-ED plug-in module is allocated in a 3HE rack cabinet. Each cabinet can contain up to two MPEG-2 encoders. Additional cabinets can easily be incorporated for systems with greater encoder requirements. An internal multiplexer performs encoder cascading to compose a multi-channel bouquet. The integrated TFT-LCD monitor functions as an on-screen display (OSD) for system configuration and is also used to analyze the post-compression video signal test results. The main operating settings can easily be programmed using the keypad and display on the front panel or via the RS-232 communication port.

The decoder has two operational modes:

- Loopback mode enables the real-time control of the encoder by displaying the post-compression video signal on the video output or LCD monitor.
- ASI Input mode permits only ASI decoding, the selection and setting of the required channel from within the multi-channel bouquet.

An optional digital data transmission (G.703 E1) module and video format converter and EPG insertion module are available on request.

ENCODER	
VIDEO	
Input connectors	BNC female, 75 Ω
Analog input	Composite 1 Vpp, 75 Ω (adjustable on front panel)
Digital input	SDI with non-embedded audio, BNC female, 75 Ω DVB interface (selectable by menu)
Video standard	PAL, NTSC, SECAM, others
Encoding format	MPEG-2 (4:2:0) MP@ML ISO/IEC 13818-2
Encoding type	I, P, B structure GOP flexible
Encoding bitrate	1 Mbps to 10 Mbps (adjustable)
Video resolution	Full D1, 3/4 D1, 2/3 D1, 1/2 D1, SIF
Pre-processing	Noise reduction filter, time base correction
ASI output	2 x BNC female, 75 Ω DVB interface
G-703 E1 output (optional)	1.5 Mbps / 2 Mbps (selectable), BNC female, 75 Ω
AUDIO	
Input connectors	2 x Mini XLR (Cannon) female, balanced or unbalanced
Analog input	0 dBm, 600 Ω or high impedance (adjustable on front panel)
Audio modes	Stereo, joint-stereo, dual channel, single channel
Sampling rates	32 KHz, 44.1 KHz, 48 KHz
Encoding format	MPEG-1 layer 1 & 2 (ISO-IEC 11172-3 compliant)
Encoding bitrate	192 Kbps, 256 Kbps, 320 Kbps, 384 Kbps
DECODER	
ASI input	BNC female, 75 Ω DVB interface
Video output	Composite 1 Vpp, 75 Ω
Audio output	2 x 0 dBm, 600 Ω , Mini XLR (Cannon) male, balanced
MONITORING	
Display type	2.5" colour TFT-LCD panel, 480 x 234 dot
Adjustments	Colour, contrast, brightness, tint (adjustable on front panel)
Time out	Approximately 15 minutes
LED indicators	Audio over-modulation, video over-modulation, video presence, TS OK, TS clock
VARIOUS	
Quick setup	6 factory standard setup settings: 1.5 Mbps, 3 Mbps, 4.5 Mbps, 5 Mbps, 5.5 Mbps, 6 Mbps
Control port	Front panel RS-232 (for setting PIDs, provider name, network name, LCN, etc.)
GENERAL	
Power supply	230 VAC (110 VAC optional)
Power consumption	7 W per encoder
Operating temperature	0 $^{\circ}$ C to +40 $^{\circ}$ C
Relative humidity	95 %, non-condensing
Cooling	Natural convection
Dimensions (W x H x D)	438 x 132 x 418 mm
Size	19" 3HE (max. 2 MP-ED modules per cabinet)