



## DESCRIPTION

The MP-SD SERIES multi-format, multi-standard MPEG-2 encoder offers a complete solution for the compression and multiplexing of digital video broadcasting (DVB) services. It supports a wide range of DVB transmission (terrestrial/satellite/cable) and digital microwave distribution applications, and features great flexibility and a very high-quality video signal even at low bitrates.

The MPEG-2 encoder module is housed in a 19" 2HE rack cabinet. Each cabinet can contain up to three 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. Each MP-SD is equipped with one analog video input, dual analog audio inputs, one SDI video input with embedded or separate audio, one ASI input (for multiplexer use), and dual ASI outputs. Teletext insertion, PID filtering, DVB tables generation, and automatic recognition, analysis and demultiplexing of the incoming DVB services are performed in every encoder. The main operating settings of each module can easily be programmed using the keypad and multifunction LCD display on the front panel or using high level commands via the USB communication port on the rear panel.

VIDEO	
Input connectors	BNC female
Analog input	Composite 1 Vpp, 75 Ω (internally adjustable)
Digital input	SDI with or without embedded audio, BNC female, 75 Ω
Video standard	PAL, NTSC, SECAM
Encoding format	MPEG-2 (4:2:0) ISO/IEC 13818-2
Encoding type	I, P, B structure GOP flexible
Encoding bitrate	0.5 to 15 Mbps (selectable)
Video resolution	D1, 3/4 D1, 2/3 D1, 1/2 D1, SIF, QSIF
Video format	1:1, 4:3, 16:9, 2.21:1, automatic aspect ratio
AUDIO	
Input connectors	2 x Cannon female, balanced or unbalanced
Input level	0 dBm
Input impedance	600 Ω or high impedance (internally adjustable)
Audio modes	Stereo, joint-stereo, dual channel, single channel
Encoding format	MPEG-1 layer 1 & 2 (ISO/IEC 11172-3 compliant)
Encoding bitrate	Up to 448 Kbps
ASI in-out	BNC female, 75 Ω DVB interface
ASI output rate	Up to 210 Mbps
MONITORING	
Display	4-line LCD display
LED indicators	Video input presence, TS alarm, ASI input presence, ASI out overflow
USB communication port	115200 bps, 8 data bits, no parity, 1 stop bit, no flux control
GENERAL	
Power supply	230 VAC (110 VAC optional)
Power consumption	3 W per encoder
Operating temperature	0 °C to +45 °C
Relative humidity	95 %, non-condensing
Cooling	Natural convection and DC fans
Dimensions (W x H x D)	438 x 88 x 441 mm
Size	19" 2HE
Weight	6.5 Kg

MODEL	CABINET SIZE	NUMBER OF ENCODERS
MP-SD	2HE	1
MP-SD/2	2HE	2
MP-SD/3	2HE	3
MP-SD/4	2 x 2HE	3 + 1
MP-SD/5	2 x 2HE	3 + 2
MP-SD/6	2 x 2HE	3 + 3
MP-SD/7	3 x 2HE	3 + 3 + 1