

Multi Digital Encoding/Multiplexing

EMA SERIES 4-WAY MPEG-ENCODER/MULTIPLEXER



The EMA-series **EMA 207/308/408** features professional, flexible and efficient Encoder/Multiplexer units perfectly suited for CATV, SMATV, IPTV and broadcast applications. The units combine encoding and multiplexing in one unit featuring first class system parameters and excellent Audio/Video quality both in SDTV (Standard Television TV) and HDTV (High Definition TV). The modules of the EMA series offer a compact solution for encoding of up to 5 incoming signals to 1 digital ASI transport stream and optionally to one IP (SPTS/MPTS) output stream while it processes digital SDI as well as analog Audio/Video signals. The EMA series units are additionally equipped with an ASI input that enables the insertion of an additional ASI-TS or the cascading of up to 8 units **EMA 207/308/408** so to stream multiple programs.

The units of the EMA-series can be accessed and configured locally and remotely (embedded webserver TCP/IP) and also feature SNMP optionally.

EMA 207	9172.81	MPEG-2 encoder/ DVB multiplexer, ASI-TS (DVB) + 4 x A/V to ASI-TS	
EMA 308	9173.81	MPEG-2 encoder/ DVB multiplexer, ASI-TS (DVB) + 4 x A/V to ASI-TS	also with IP output (SPTS, MPTS)
EMA 408	9174.81	MPEG-2/4 encoder/ DVB multiplexer, ASI-TS (DVB) + 4 x A/V to ASI-TS	also with IP output (SPTS, MPTS)

- **4-way MPEG2/4 Encoder/Multiplexer**
- **Easy encoding and multiplexing meeting highest quality standards**
- **Encoding/Multiplexing of 4 x A/V or SDI inputs to 1 ASI or IP output**
- **Individual adjustment of the incoming Audio/Video signals**
- **Supports insertion of external ASI-TS also for cascading**
- **Local and remote configuration with PC/Laptop via webserver / SNMP**

Encoder, Video	
Standard	PAL, SECAM, NTSC (50/60 Hz)
Compression	MPEG-2 (MP@ML) / H.264/AVC (MPEG-4)*
Format/Size	720 x 576 Pixel / 1280 x 720 Pixel*
System Bit rate	1024...15000 kbps (individually adjustable per channel) (depends on total bandwidth and number of channels)
Encoder, Audio	
Compression	MPEG-1 Layer 2
Sample frequency	48 kHz, stereo
Bit rate	64...384 kbps
Transport stream Output	
Protocol	DVB-ASI, burst- or interleave mode
Connector	1 x BNC/75 Ω /800 mV _{pp}
Bit rate	1...214 Mbps adjustable (1 kbps steps)
Channels within TS	1...4 per unit max. 8 units can be cascaded
Transport stream Input	
	for DVB transport streams up to 214 Mbps (burst or interleave mode) input for multi-unit configuration

A/V input	
Video IN :	4x BNC, 75 Ω (1 V _{pp} SDI: 0.8 V _{pp}) FBAS/analogue audio switchable of SDI (270 Mbps)/audio embedded or analogue audio
IP Streamport**	
Network connection (LAN/WAN)	Ethernet, 10/100/1000 Base-T
Connector	RJ 45
Protocol	UDP, RTP, ARP
additional troubleshooting	pro-MPEG Code of practice 3 rev. 2
Encapsulation	accord. ETSI TS 102034
Remote control	
Adjustments SNMP	Web interface via Ethernet IP Provision of a MIB parameter file
Extensions	
Cascading	Transparent transmission of teletext signals, conversion and transmission of VPS- and WSS signals. Own creation of teletext (option)
Special Features	
Teletext, VPS, WSS	transparent transmission of teletext signals, implementation and transfer of VPS and WSS signals, optional separate TTX-producing

* MPEG 4 only EMA 408
** only EMA 308/408