

ENCODING/MULTIPLEXING SD & HD

EMA Series 4-way MPEG-2/MPEG-4 Encoder/Multiplexer



The EMA series EMA 308/407/408 features professional, flexible and efficient Encoder/Multiplexer units perfectly suited for CATV, SMATV, IPTV and broadcast applications. The products combine encoding and multiplexing in one unit featuring first class system parameters and excellent Audio/Video quality both in SDTV and HDTV. The EMA series offers a compact solution for encoding of up to 4 incoming signals into 1 ASI or IP (SPTS/MPTS) transport stream processing digital SDI as well as analog Audio/Video signals. The EMA units are equipped with an ASI input that enables the insertion of an additional ASI TS or the cascading of up to 8 EMAs 308/407/408 to stream multiple programs. The EMAs can be configured locally or remotely via a web server and also feature an optional SNMP client.

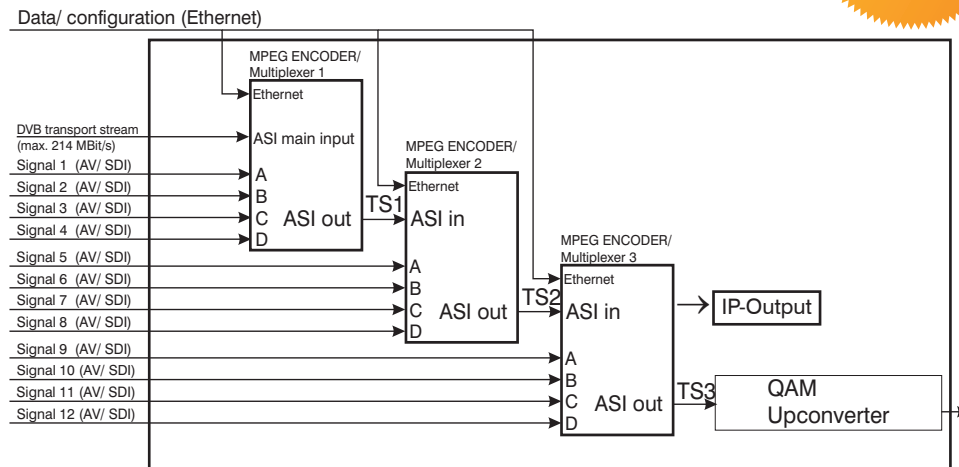
EMA 308	9173.81	MPEG-2 Encoder/ DVB Multiplexer, ASI-TS (DVB) + 4 x A/V in ASI-TS	also with IP output (SPTS, MPTS)
EMA 407	9174.71	Transcoder H.264/AVC → MPEG 2 (SD) 2-channel	also with IP output (SPTS, MPTS)
EMA 408	9174.81	H.264/ AVC Encoder/ DVB Multiplexer 4-channel	also with IP output (SPTS, MPTS)

ENCODER/MULTIPLEXER

- **4-way MPEG-2/MPEG-4 Encoder/Multiplexer**
- **Encoding/Multiplexing of 4 A/V or SDI inputs to 1 ASI or IP output**
- **Individual adjustment of incoming Audio/Video signals**
- **Supports insertion of external ASI-TS also for cascading**
- **Local and remote configuration via web server/SNMP**



Basic operation



Application example: Cascade of three encoders incl. QAM-Upconverter

...setting signals



EMA 308 4-way MPEG-2-Encoder / Multiplexer
EMA 407 / 408 4-way MPEG-4 / AVC-Encoder / Multiplexer

- **A-LINE series featuring MPEG 2/4 Encoder, Multiplexer and IP Streamers**
- **High end solutions especially for cable TV, broadband and broadcast architectures**
- **Outstanding signal parameters for best picture quality and stability**
- **PID filtering, remapping, PSI-/SI processing**
- **Output level monitoring**
- **SNMP monitoring**
- **Flexible and easy local or remote configuration via web server (HTML)**

Encoder, Video	
Standard	PAL, SECAM, NTSC (50/60 Hz); SD-SDI, HD-SDI*, MPEG-2 TS HD/SD*
Compression	MPEG-2 (MP@ML) H.264/AVC (MP @L3.0/HP @L4.0)
Format/Size	SD 625/525, HD 720p*, HD 1080i*
System bit rate	1024 ... 15 000 kbps / 20 000 kbps* (adjustable individually per channel)
Encoder, Audio	
Compression	MPEG-1 Layer 2 / AC-3**
Sampling rate / Bit rate	48 kHz, stereo / 64...384 kbps
Transport stream output	
Protocol	DVB-ASI, burst/ continuous mode; DVB-ASI/ ATSC, burst- or interleave mode adjustable
Connector	BNC/ 75 Ω / 800 mV _{pp}
Bit rate	1...214 Mbps burst mode, 1...98 Mbps interleave/ continuous mode, adjustable in steps up 1 kbps
Channel within TS	1...4 per unit, max. 8 units can be cascaded
Transport stream input	
Protocol	for DVB transport streams up to 214 Mbps (burst or interleave mode) input for multi-unit configuration
A/V input	
Audio/Video IN :	4x BNC, 75 Ω (1 Vpp SDI: 0.8 Vpp) FBAS/analog audio switchable of SDI (270 Mbps)/ audio embedded or analog audio

IP Streamport	
Network connection	Ethernet, 10/100/1000 Base-T
Connector	RJ 45
Protocol	UDP, RTP
additional troubleshooting	pro-MPEG Code of practice 3 rev. 2
Encapsulation	accord. ETSI TS 102034
Remote control	
Adjustments via SNMP	Web interface via Ethernet IP Provisioning 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)

* only EMA 407/408
 ** only EMA 408 (optional)

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