

with built-in Multiplexer and ASI input/output



## Key Features

- 4-channel MPEG-2 SD Encoder/Multiplexer
- Easy and high quality encoding and multiplexing of 4 A/V or SDI signals to one ASI-TS
- Various cascading possibilities
- Additional ASI input for digital ASI-TS insertion
- Transparent Teletext- and service data transmission (VPS, WSS)
- Audio level adjustment
- Local and remote control via PC/Laptop, WebServer (TCP/IP)/ SNMP agent
- Generation of NIT and further DVB tables

## Description

The EMA 207 is a professional, flexible and cost effective 4-channel MPEG-2 SD Encoder/Multiplexer that combines both encoding and multiplexing in one unit and provides excellent video quality and performance.

The EMA 2007 offers an efficient solution for encoding of up to 4 Analog Audio/Video or SDI signals into one digital ASI Transport stream and is ideally suited for cable-TV headends, broadcasting applications and digital video distribution via telco structures.

This device is most perfect for enabling cable operators to make their digital play out by processing analog inserted A/V (or SDI) signals in digital services.

It is also equipped with a separate ASI-input interface intended for cascading EMA 207 devices so to create digital ASI-TS with multiple programs. The ASI interface of the first module in the cascade (Master) can also be used to insert any other ASI-TS making this a most flexible solution for future digital networks.

The EMA 207 has an integrated webserver (TCP/IP) and features easy local and remote operation and control possibilities.

## Product Specifications

### VIDEO COMPRESSION

<b>Standard:</b>	PAL, SECAM, NTSC
<b>Compression:</b>	MPEG-2 (MP@ML)
<b>Format:</b>	720 x 576 Pixel, 720 x 480 Pixel
<b>System Bit Rate:</b>	1,024...15,000 kbps, configurable for each channel separately (taking in consideration the maximum required bandwidth)

### AUDIO COMPRESSION

<b>Compression:</b>	MPEG-1 Layer 2
<b>Sample frequency:</b>	48 kHz, Stereo
<b>Bit rate:</b>	64...384 kbps

### TRANSPORT STREAM - OUTPUT

<b>Protocol:</b>	DVB-ASI, choice between Burst- or Interleave-Mode
<b>Connector:</b>	1x BNC / 75 $\Omega$ , 800 mVpp
<b>Bit rate:</b>	1...214 Mbps in Burst-Mode 1...98 Mbps in Interleave-Mode (configurable in steps of 1 kbps)

<b>Channels within TS:</b>	1...4 per device (max. 8 devices can be cascaded)
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### TRANSPORT STREAM - INPUT

<b>Protocol:</b>	DVB-ASI Transport Stream insertion, burst or interleave mode, 188 or 204 bytes
<b>Connector:</b>	BNC, 75 Ohms, 800 mVpp

### AUDIO/VIDEO - INPUT

<b>Video IN:</b>	Analogue: 4x BNC / 75 $\Omega$ / 1 Vpp Digital: 4x SDI, 270 Mbps, 800 mVpp, Audio embedded or Analog
<b>Audio IN:</b>	4x DIN 45326 socket 8poles, Stereo, 600 ohms or 10 kOhms (selectable), balanced

### REMOTE CONTROL

<b>Adjustment :</b>	Web interface per Ethernet UDP/IP
<b>SNMP:</b>	Provision of a MIB parameter file

### EXTENSION CASCADING

<b>Cascading:</b>	Via ASI input interface
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<b>Number:</b>	8x EMA 207 can be connected via ASI-interface
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### SPECIAL FUNCTIONS

<b>Teletext, VPS, WSS:</b>	Transparent transmission of Teletext signals, conversions and further transmission of VPS and WSS signals
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### PHYSICAL VALUES

<b>Dimensions (w x h x d):</b>	44 x 440 x 281 mm, 19"-mounting chassis 1 HE
<b>Operating Voltage:</b>	85...264 V~, 50 / 60 Hz
<b>Power consumption:</b>	15 VA
<b>Weight:</b>	4550 g (10 lbs)
<b>Temperature range:</b>	-10...+55°C

## Application Example

