

Multi Digital Encoding/Multiplexing

■ EMA 207 4 WAY MPEG-ENCODER/MULTIPLEXER

The new **EMA 207** is a professional, flexible and cost effective 4 way Encoder/Multiplexer that combines encoding and multiplexing in one unit and provides excellent video quality and performance.

This module offers an efficient solution for encoding of up to 4 Audio/Video or SDI signals into one digital ASI Transport stream and is ideally suited for cable TV headends as well as for broadcasting and playout applications.

The **EMA 207** is also equipped with a separate ASI input interface intended for cascading a specific number of **EMA 207** modules to create a digital ASI-TS with multiple services. The ASI interface of the first module in the cascade (Master) can also be used to insert any other ASI-TS which makes this unit a most flexible solution for future digital networks.

The **EMA 207** has an integrated webserver (TCP/IP) and features easy local and remote access and configuration.



- 4-way MPEG-Encoder/Multiplexer
- Easy and high quality encoding and multiplexing of 4 A/V or SDI to ASI-TS
- Cascading of max. 8 devices for flexible and reliable architectures
- Additional ASI-TS insertion possible while the received ASI transport stream can be processed
- Transparent Teletext- and service data transmission (VPS, WSS)
- Audio level and video adjustments

MPEG-ENCODER/MULTIPLEXER
EMA 207

Technical Specification

EMA 207 4 WAY MPEG-ENCODER/MULTIPLEXER

Encoder, Video	
Standard	PAL, SECAM, NTSC (50/60 Hz)
Compression	MPEG-2 (MP@ML)
Format/Size	720 x 576 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	
	DVB ASI for transport streams of max. 214 Mbps (burst- or interleave mode) with program filter/ Input by multi unit configuration

A/V Inputs	
Video IN :	4 x BNC 75Ω (analog 1 V _{pp} /SDI 0.8 V _{pp}) FBAS/analog audio switchable to SDI (270 Mbps)/audio embedded or analog audio
Audio IN:	4 x DIN 45326 socket 8-poles/stereo 600 Ω /10 kΩ symmetrically
Remote control	
Adjustments	Web-Interface per Ethernet IP Provision of a MIB parameter file
Extensions	
Cascading	Several EMA Encoders can be cascaded via the ASI interface so to create one DVB Transport stream.
Special functions	
Teletext, VPS, WSS	Transparent transmission of teletext signals, conversion and transmission of VPS- and WSS signals. Own creation of teletext (option)
Physical values	
Weight	4550 g

ORDERING INFORMATION		
TYPE	ORDER#	DESCRIPTION
EMA 207	9172.81	MPEG-2-Encoder / DVB Multiplexer 4 x A/V ⇔ ASI-TS



Your BLANKOM Partner



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Associated BLANKOM Products

- EMA 207 4-way MPEG Encoder/Multiplexer
- VEA 107 3-way MPEG Encoder/Multiplexer
- AMA 299 QAM Modulator
- MXA 107 8 way Multiplexer
- DRP 3xx 8PSK/QPSK, COFDM, QAM, ASI - Receivers/Decoders
- DRD 694 TWIN 8PSK/QPSK Receiver with 2 ASI and GigE outputs
- DIP 120/1021 ASI ⇔ IP Gateways (Bi-directional)
- ITB 100 Modular ASI ⇔ IP Transcoder (Bi-directional)
- EQM 10x Edge QAM Modulator (IP to 24 x QAM/RF)