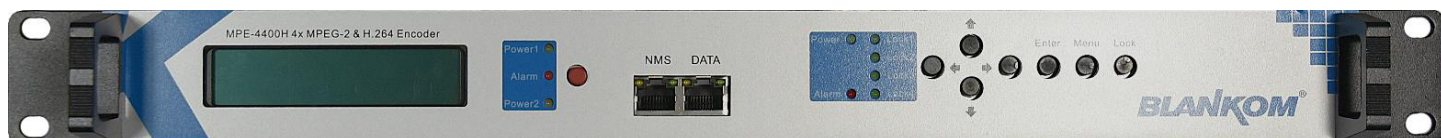


K H.264 & MPEG-2 Broadcast Encoders

- ☐ 2 or 4 HDMI / SDI inputs
- ☐ H.264 / MPEG-2 encoding
- ☐ ASI input · ASI & IP output
- ☐ Redundant PSU option



BLANKOM MPE-4400 - front panel

Product Overview

The MPE-4000 family combines two or four HDMI or SDI sources, H.264/AVC and MPEG-2 encoding, transport-stream multiplexing and IP/ASI delivery in a 19-inch rackmount platform.

An additional **ASI input** allows an existing transport stream to be combined with locally encoded programmes. Choose the input interface and channel count to match your source equipment.

Why Choose This Family?

Encoding and headend integration in one unit.

Feed compatible IP receivers or downstream ASI equipment from the same platform. The two ASI connectors carry mirrored outputs.

Redundant power available on every variant.

Specify the redundant power option for HDMI or SDI models. H.264 and MPEG-2 support integration with compatible HD/SD receiving equipment.

Key Features

- ✓ **CBR encoding.** Current V2 platform: H.264 / MPEG-2 at 1-19.5 Mbps with constant bitrate control.
- ✓ **Integrated remultiplexing.** Combine the incoming ASI stream with encoded local sources.
- ✓ **IP programme delivery.** UDP and RTP/RTSP over Gigabit DATA Ethernet; MPTS/SPTS output.
- ✓ **Transport-stream processing.** PSI/SI editing and insertion; IP null-packet filtering.
- ✓ **SDI Closed Caption.** EIA-608, EIA-708 and Line 21 on SDI input versions only.
- ✓ **Low-delay operation.** Normal, Mode 1, Mode 2 and Manual settings; LCD controls and Web NMS.

Typical Applications

Broadcast / CATV headends

Acquire programme feeds and deliver IP or ASI streams to downstream equipment. RF delivery uses an external modulator.

Hospitality & information channels

Distribute local video and branded information over managed IP networks or an external IP-to-RF system.

Camera contribution over IP

Carry encoded camera feeds to compatible decoders. Select SDI or HDMI inputs for the source interface.

Mixed HD/SD receiver environments

Select H.264 or MPEG-2 for the receiving workflow. 1080p50/60 is available with H.264 only; use the listed HD/SD formats with MPEG-2.

MPE-4200S

2 × SDI

MPE-4200H

2 × HDMI

MPE-4400S

4 × SDI

MPE-4400H

4 × HDMI

Rear Connections - MPE-4400



MPE-4400S - SDI rear panel



MPE-4400H - HDMI rear panel

BLANKOM panel photographs. Connector layout and power-supply arrangement depend on the ordered configuration.

Technical Specifications

INPUTS & VIDEO

Video inputs	4200: 2; 4400: 4 H: HDMI; S: SDI
ASI input	1 input for remultiplexing
Video codecs	H.264/AVC and MPEG-2 HD/SD
Progressive HD	1080p50/60: H.264 only
Other formats	1080i50/60; 720p50/60; 480i60; 576i50
Downscaling	Supported; includes 1440 × 1080i50/60 output
Video bitrate	1-19.5 Mbps
Rate / chroma	CBR (V2); 4:2:0
Aspect ratio	16:9 or 4:3

AUDIO & CAPTIONS

Audio sampling	48 kHz
Audio bitrates	64 / 96 / 128 / 192 / 256 / 320 kbps
DD AC-3	Encoding with dialog normalization; confirm audio configuration
Normalization	-31 to -1 dB; DD AC-3 only
SDI audio	Audio group / pair selection (V2)
Closed Caption	EIA-608 / EIA-708 / Line 21; SDI inputs only

OUTPUTS & MANAGEMENT

IP output	1 MPTS + 4 SPTS on four-input platform; UDP, RTP/RTSP
ASI output	2 mirrored BNC ports; same TS, selectable MPTS or an SPTS
DATA / NMS	Gigabit DATA RJ45; separate 100 Mbps NMS RJ45
TS processing	PSI/SI editing and insertion; IP null-packet filter
Management	LCD + buttons; Web NMS; English; web-based updates
Low-delay modes	Normal / Mode 1 / Mode 2 / Manual

SYSTEM & PHYSICAL

Modules	Drawer-type encoder modules
Dimensions	482 × 400 × 44 mm
AC input	100-240 V AC
Redundant PSU	Available as an option for all variants
Operating range	0-45 °C

Selection & Configuration

Specify input interface and count, codec, source format, audio, IP/ASI allocation and redundant power. Confirm stream allocation for two-input variants. A mixed 2 SDI + 2 HDMI OEM configuration is listed; request BLANKOM availability and order code.

Specifications are subject to change without prior notice.