

K Professional Dual Audio Encoder

- ❑ MPEG1 Layer 2 and AAC encoding
- ❑ Analog balanced (XLR) and AES/EBU digital audio inputs
- ❑ ASI input for multiplexing
- ❑ IP output over UDP/RTP



Product Overview

The BLANKOM MPE-3000 is a professional dual audio encoding device equipped with two stereo channels. It is designed to support analog balanced audio and AES/EBU digital audio via XLR interfaces.

Furthermore, the unit features one ASI input for multiplexing, two independent ASI output interfaces, and one gigabit port for IP output. Its high compatibility and excellent encoding quality make this device widely used and highly reliable for integration into digital broadcasting systems.

Key Features

- ✓ **Audio Encoding:** Features 2 audio encoding channels.
- ✓ **Format Support:** MPEG1 Layer 2 and AAC encoding.
- ✓ **Audio Modes:** Supports left, right, and stereo encoding, noting that AAC is strictly for stereo.
- ✓ **Gain Control:** Adjustable audio gain from -12 to +12 dB.
- ✓ **Input Flexibility:** Supports analog balanced audio inputs and AES/EBU digital audio inputs.
- ✓ **Multiplexing:** Includes support for one ASI input for multiplexing purposes.
- ✓ **Output Capabilities:** Offers 2 independent ASI outputs via BNC interface, acting as a mirror out of MPTS/SPTS1/SPTS2.
- ✓ **IP Streaming:** IP output is delivered over UDP/RTP protocols, supporting both unicast and multicast.
- ✓ **Management:** Configuration is accessible via an LCD/keyboard interface or Web GUI management.
- ✓ **Power Redundancy (option):** Dual power supply with hot-plugging capability is available as an option

Applications

Digital Broadcasting Systems: Easily integrated into wider broadcasting environments due to its high compatibility and excellent encoding quality.

IPTV & Cable Headends: Capable of ingesting analog and digital feeds and outputting via IP over UDP/RTP (unicast/multicast) for modern distribution networks.

Multiplexing Architectures: Can incorporate external feeds using its dedicated ASI input for multiplexing operations.

Outside Broadcast (OB) and Live Event Feeds: Ideal for encoding live analog or AES/EBU digital audio directly from mixing consoles at remote event locations into robust ASI or IP streams for satellite uplink or central studio processing.

BLANKOM Highlights

Licensing: Lifetime license included; no recurring or annual fees required.

Warranty: Includes a 2-year standard warranty, with optional extensions available for up to 5 years of total coverage.



Rear side view

2x Analog Stereo XLR Inputs and AES/EBU Inputs

2x ASI Outputs

NMS Port

Power supply

Input interfaces

Parameter	Value
Analog audio input	Analog balanced audio, XLR interfaces
Digital audio input	AES/EBU digital audio, XLR interface
ASI input	1xASI input, BNC interface

Encoding processing

Parameter	Value
Audio formats	MPEG1 Layer 2, AAC
Sample rate	48 kHz
Sample accuracy	16 bit
Bitrate	64/96/128/192/256/320/384 kbps
Sound track	left, right, stereo (AAC is only for stereo)

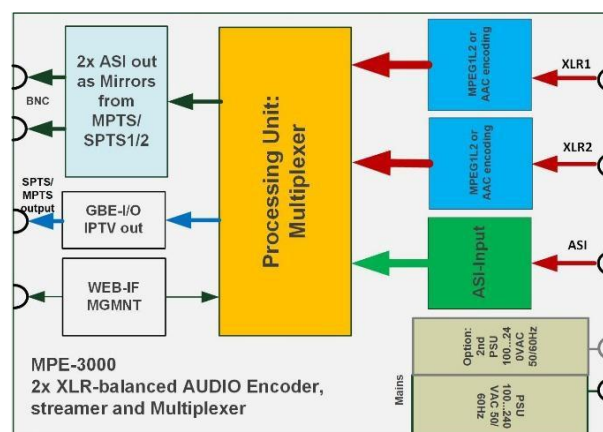
Multiplexing

Parameter	Value
Maximum PID number	64

Output interfaces

Parameter	Value
ASI output	2 independent ASI outputs, BNC interface (Mirror out of MPTS/SPTS1/SPTS2)
IP output	IP output over UDP/RTP protocol, 100M/1000M Self-adaptive RJ45 interface (unicast/multicast)

ASI Input IP Port



System & General

Parameter	Value
Management	NMS Web-server Management, LCD + control buttons (English language).
Power supply	Single power supply standard; Dual power supply optional available upon request
Power requirements	AC 110V±10% or AC 220V±10%, 50/60Hz
Power consumption	<15W
Temperature range	0...45°C (operation)
Dimensions	482 x 350 x 44mm
Weight	Approx. 3.2 kg

Ordering information

Type	Description
MPE-3000	Professional Audio Encoder
Option: Redundant dual power supply	Available instead of single power supply