BLANKOM
Quality for professionals

HDM-1001

4K Encoder-Streamer & DVB-C/T/T2 Modulator

- ☐ **4Kp60 HDMI (H.265) · H.264**
- ☐ **DVB-C / DVB-T / DVB-T2 out**
- ☐ **RF output 54–900 MHz**
- ☐ **UDP/RTP · RTSP · SRT · HLS**

Product Overview

The BLANKOM **HDM-1001** is a professional 4K encoder, IP streamer and RF modulator for video distribution over **IP and coaxial networks**. It accepts an **HDMI 2.0** source or media files from USB storage and encodes in **H.265 or H.264** at up to **3840 × 2160**; 4Kp60/50 is available with H.265.

The integrated modulator delivers one **DVB-C (J.83 Annex A/B), DVB-T or DVB-T2** carrier between 54 and 900 MHz, while the streamer outputs the same programme as IP-SPTS via UDP/RTP unicast or multicast, RTSP, RTMP, SRT and HLS. An HDMI loop-through output, a front-panel LCD and a web interface on a dedicated management port complete the unit.



Key Features

- ✓ **4K HDMI encoding.** Up to 3840 × 2160 at 60/50 fps (H.265) or 30/25/24 fps (H.264/H.265); QHD, FHD and HD at up to 60 fps.
- ✓ **Multi-standard RF output.** One DVB-C, DVB-T or DVB-T2 carrier, 54–900 MHz in 1 kHz steps, up to 100 dBµV, MER ≥35 dB (DVB-C).
- ✓ **IP streaming in parallel.** UDP/RTP unicast and multicast, RTSP, RTMP, SRT and HTTP/HLS; UPnP discovery.
- ✓ **Service configuration.** Editable programme name and video, audio and PMT PIDs.
- ✓ **USB playback.** Two USB 3.0 ports play TS/MP4 files in a loop for information channels and digital signage.
- ✓ **Separate management.** Dedicated Gigabit management port and Gigabit streaming port; web interface with configuration backup/restore and firmware upgrade.

Applications

Hospitality & healthcare TV
Insert in-house information channels into existing coaxial TV networks of hotels and hospitals.

Campus & residential networks
Distribute 4K content as DVB-C/T/T2 over coax and as IP streams over the LAN at the same time.

Digital signage
Loop advertising or information content from USB into the RF and IP network.

Headends & OTA
Use as a DVB modulator in cable headends; MFN over-the-air DVB-T/T2 transmission with suitable amplifiers and antennas, subject to regional broadcasting regulations.

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Front & Rear Connections



Front: LCD status display · navigation keys · HOME · ENTER



Rear: RF OUT (F) · HDMI loop-through · HDMI IN · RESET · 2 × USB 3.0 · Ethernet Management · Ethernet Stream · 12 V DC

INPUTS & CONNECTIVITY

Video in / out	1 × HDMI 2.0 input (up to 4Kp60, embedded audio); 1 × HDMI loop-through
USB	2 × USB 3.0; loop playback of TS / MP4 files
Network	2 × Gigabit Ethernet, RJ45: management, streaming
RF output	1 × F-type, 75 Ω

STREAMING & OPERATION

IP output	IP-SPTS; UDP/RTP unicast and multicast; RTSP, SRT, HTTP/HLS, RTMP (H.264 and AAC-LC only); UPnP
Service / PSI	Editable programme name, video, audio and PMT PIDs
Management	Web interface; LCD and keypad; config backup / restore; firmware upgrade; IPv4 static / DHCP, mDNS

POWER & PHYSICAL

Power	External PSU 12 V DC, 1 A; consumption 10 W
Operating temp.	0 to +45 °C
Dimensions	225 × 160 × 45 mm; brackets for 19-inch 1U racks
Weight	1240 g (net) / 1500 g (gross)

VIDEO & AUDIO ENCODING

Video codecs	H.265/HEVC, H.264/AVC; 1–50 Mbps
Resolutions	3840 × 2160 at 60/50 fps (H.265) or 30/25/24 fps; 2560 × 1440, 1920 × 1080, 1280 × 720 at up to 60 fps (H.264/H.265)
Audio	MPEG-1 Layer II, AAC-LC, AC-3; stereo; 32–640 kbps

RF MODULATION

Standards	DVB-C (ITU-T J.83 Annex A/B), DVB-T, DVB-T2; 1 carrier
Constellation	DVB-C: 16–256QAM (Annex B: 64/256QAM); DVB-T: QPSK, 16/64QAM; DVB-T2: QPSK, 16/64/256QAM
DVB-C symbol rate	Up to 6.952 MBd
DVB-T/T2	5/6/7/8 MHz; FFT up to 16K; FEC 1/2 … 5/6; guard interval 1/4 … 1/128
Frequency / level	54–900 MHz, 1 kHz steps; max. 100 dBµV, adjustable by up to 30 dB
MER	≥35 dB (DVB-C)

Ordering & Selection

HDM-1001: 4K HDMI encoder and IP streamer with integrated DVB-C/T/T2 modulator, external 12 V PSU. Lifetime licence, no recurring fees. Warranty 2 years, extendable to 5 years in total. IP input (TS over UDP/RTP, IGMPv2/v3) is planned for a future firmware release.

The usable bitrate on the RF output is limited by the selected modulation parameters. Specifications are subject to change without prior notice.