

HDMI® to DVB 4K Modulator H.264/H.265 HEVC with 4K HDMI® Loop Through 14MM-DTM4K



The DTM4K is a professional-grade 4K encoder modulator combining advanced H.264/H.265 HEVC encoding with a 4K HDMI® loop-through output. It preserves crystal-clear 4K quality on your main display while simultaneously modulating the signal to a 4K DVB output for seamless distribution across multiple TVs. Perfect for sharing content from CCTV NVRs, set-top boxes, or media players, the DTM4K supports flexible output formats including IP, DVB-T, DVB-C, ISDB-T, and ATSC. Designed for versatility and efficiency, it works over your existing coaxial or structured cabling—no extra wiring required—for a clean, reliable, and high-performance viewing experience.

Features and Benefits

- » 4K Ultra HD Encoding delivers 4K video quality with advanced H.264/H.265 HEVC compression, ensuring crystal-clear visuals while optimising bandwidth efficiency.
- » Simultaneous RF (DVB-T) and IP (UDP/RTP/RTSP) output allows you to distribute the same 4K content across multiple TVs and IP networks with ease.
- » Connect directly to your existing coaxial or structured cabling, enabling quick setup without additional network infrastructure.
- » Ensures consistent, high-performance transmission with MER ≥ 35 dB, ideal for both residential and commercial installations.
- » Supports logo or QR code insertion for on-screen instant branding or easy access to online content, while the audio delay feature keeps sound perfectly aligned with the picture.
- » Intuitive Web-GUI management provides easy configuration and monitoring of DVB-T modulation and IP streaming functions.



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HDMI Encoding Section	
Video	
Encoding	HEVC/H.265, MPEG-4 AVC/H.264
Interface	HDMI x1, HDMI loop out x1
Resolution	3840x2160_60/50p (H.265 only), 1920x1080_60/59.94/50p, 1280x720_60/59.94/50p
Chroma	Input: 4:4:4 / 4:2:2; Output: 4:2:0
Bitrate	2 Mbps ~ 20 Mbps
Rate Control	CBR / VBR
GOP Structure	IBBP, IPPP
IP output	
IP out over UDP (Unicast/multicast), RTP/RTSP, (RJ45, 100M /1000M self adaptive)	
DVB C Modulator Section	
Standard	J.83A (DVB-C), J.83B
MER	≥40dB
RF Frequency	50-960 MHz, 1 kHz step
RF Output Level	-20 ~ -5 dBm, 1 dB step
Symbol Rate	5.000 ~ 7.000 Msps adjustable
Constellation	J.83A: 16/32/64/128/256 QAM J.83B: 64/256 QAM
Bandwidth	J.83A: 8 M J.83B: 6 M
Audio	
Encoding Format	MPEG-1 Layer 2, LC-AAC, HE AAC, HE AAC V2; AC3 Pass-through
Sample rate	32KHz, 44.1KHz, 48KHz
Bit-rate	48Kbps~384Kbps (MPEG 1 Layer 2 & LC-AAC) 24 Kbps~128 Kbps (HE AAC) 18 Kbps~56 Kbps (HE AAC V2)
DVB T Modulator Section	
Standard	DVB-T COFDM
Bandwidth	6M, 7M, 8M
Constellation	QPSK, 16QAM, 64QAM
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
MER	≥35dB
RF Frequency	50-960 MHz, 1 kHz step
RF Output Level	-20 ~ -5 dBm, 1 dB step