

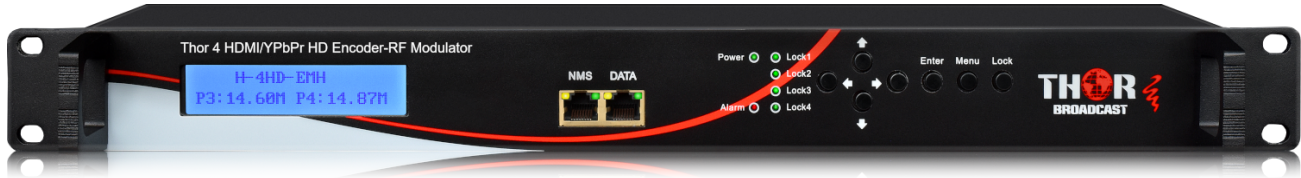


4 HDMI / Component / Composite Broadcast Encoder IPTV Streamer and ASI Output

DATASHEET



Four-channel HDMI / YPbPr / CVBS broadcast encoder with IPTV streaming, DVB-ASI output, MPEG-2 / H.264 encoding, Dolby AC/3 audio, and closed-caption support.



Front view: LCD, NMS and data ports, status LEDs, keypad controls, and Thor Broadcast branding.

Model Number

H-4HD-EMH-AC3

Manufacturer: Thor Broadcast

Primary Purpose: The H-4HD-EMH-AC3 is a four-channel real-time broadcast encoder for HDMI, component, or composite video sources. It encodes programs to MPEG-2 or H.264, supports Dolby AC/3 audio, outputs transport streams over IP, and provides mirrored DVB-ASI outputs for integration with modulators, IPTV networks, and professional headends.

4 Program Inputs HDMI, component, or composite sources	IP + ASI Outputs MPTS/SPTS streaming plus mirrored ASI	AC/3 + CC Dolby AC/3 audio and 608/708 captions	Web + Front Panel Browser management and LCD controls
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Key Specifications

Category	Specification
Model Number	H-4HD-EMH-AC3
Inputs	4x HDMI, Component, and Composite inputs; mix-and-match inputs via independent encoding
Encoding	MPEG-2 HL and MPEG-4 AVC / H.264
Audio Codecs	MPEG1 Layer II, Dolby AC/3, optional LC-AAC
Supported Resolutions	1080p60/59.94/50, 1080i60/59.94/50, 720p60/59.94/50, 720i60/59.94/50
Bit Rate	0.8–19.0 Mbps CBR or VBR
IP Output	1x MPTS and 4x SPTS over UDP, RTP/RTSP via RJ45 100M
ASI Output	2x DVB-ASI multiplexed outputs
ASI Input	DVB-ASI input with ASI-to-IP conversion capability
Closed Captions	608CC / 708CC through CVBS analog video input; Line 21 CC input
Management	Web-based browser interface plus front-panel LCD and keypad
Dimensions / Weight	480 x 455 x 45 mm; 3.25 kg
Operating Temperature	0–45 °C
Warranty	2-year limited warranty

Core Features

- Real-time MPEG-2 / H.264 encoding with low-latency option.
- Independent control of bitrate, codec, and video quality parameters for each channel.
- Supports Dolby AC/3 audio for compatibility with U.S. television systems.
- Supports HDMI, component, composite video, and CC input through baseband CVBS.
- Outputs 1x MPTS and 4x SPTS over UDP, RTP, or RTSP for IPTV distribution.
- Provides two mirrored DVB-ASI outputs for QAM modulators, IP gateways, or broadcast headends.
- Includes DVB-ASI input and ASI-to-IP conversion capability.
- Front-panel LCD, keypad, alarm LEDs, and browser-based management simplify setup and monitoring.

Rear Panel and Signal Connectivity



Rear-panel view: four HDMI / component / composite input groups, SPDIF connections, ASI input, dual ASI outputs, AC power, and grounding.

Source Inputs	Encoding / Transport	Outputs / Delivery
HDMI, YPbPr component, CVBS composite, analog audio, and SPDIF inputs for up to four programs.	Each channel can be independently configured for bitrate, codec, and video quality; MPEG-2 or H.264 encoding is supported.	IP transport streams over UDP/RTP/RTSP plus 2x multiplexed DVB-ASI outputs for headend or modulator integration.

Application Fit

- IPTV headends and multicast video distribution
- HDMI / component / composite source contribution
- Closed-captioned HDMI program encoding
- Hospitality, sports venues, campuses, and facilities
- ASI handoff into QAM or CATV modulation systems
- Digital signage, local origination, and internal video networks

Operational Advantages

Function Area	Customer Benefit
Multi-format source inputs	Allows HDMI, component, and composite sources to be encoded on the same platform.
IPTV + ASI output	Feeds IP networks and ASI-based broadcast equipment simultaneously.
AC/3 support	Improves compatibility with North American TV audio requirements.
Closed caption support	Line 21 closed caption integration through composite baseband input.
Browser management	Fast setup from a PC on the same management network.
Front panel operation	Local LCD and keypad access for field setup and quick status checks.

Model / Configuration Notes

Related Model	Configuration
H-4HD-EMH-AC3	4 x HDMI / CVBS / YPbPr input HD encoder with IP / ASI output
H-4ADHD-QAM-IPLL	4 x HDMI / CVBS / YPbPr input HD encoder with IP / ASI / QAM RF output option
H-2HD-EMH	2-channel HDMI encoder
H-1HD-EMH	1-channel HDMI encoder
H-4HD-EMS	4-channel SDI encoder

Technical Notes

- All specifications are subject to change without notice.
- No price or availability information is included in this datasheet.
- Use the QR code on page 1 to open the product page for current manuals and product details.
- For system design support, contact Thor Broadcast sales or technical support.