



Features

- Decode MPEG-2 / MPEG-4 signals from various sources including DVB-S/S2/T/C, ASI and IP
- Enables IP/ASI conversion and IP stream descrambling
- Multi-channel IP unicast and multicast (SPTS outputs for IPTV)
- Program filtering
- Pro-MPEG FEC (SMPTE-2022) support
- Multiple outputs, including HDMI, HD/SD-SDI, ASI, YPbPr CVBS, and IP
- NTSC, PAL, and SECAM compatible
- Optional tuner input for DVB-S / S2 / T / C
- Configuration and monitoring through front panel or SNMP network manager.
- BISS I and E support

Applications

- IPTV Broadcast Systems
- MDU Video Distribution
- Digital Signage & Kiosk Displays

SD / HD MPEG 2 or H.264 AVC Video / Audio Decoding

EMCORE's HDD-M4-1-RM is an advanced high-performance MPEG-2 / MPEG-4 decoder that performs real-time receiving and decoding of HDTV & SDTV content over DVB and broadband IP networks.

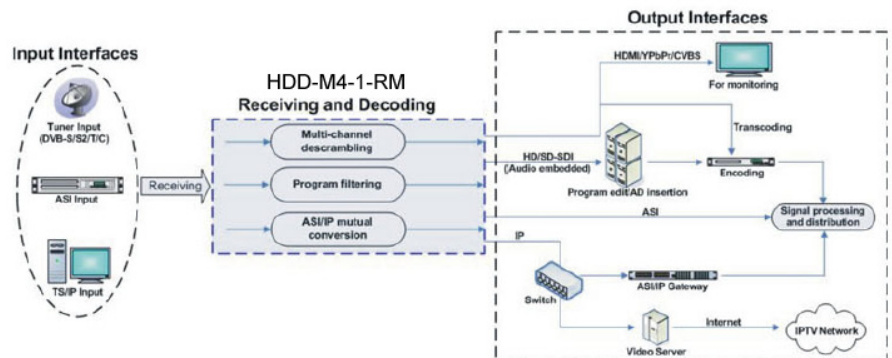
The HDD-M4-1-RM supports input options such as DVB-S/S2, DVB-C, DVB-T, DVB-ASI and IP allowing it to receive and decode programs from different content sources. The output options are HDMI, HD-SDI, SDI, DVB-ASI, CVBS, YPbPr, AES3, stereo analog audio and IP (unicast or multicast) which simplifies device integration.

The user-friendly HDD-M4-1-RM decoder is an ideal solution for signal conversion and distribution over IP for the most demanding broadcast or IPTV applications.

System Design

Enclosed in a ruggedized aluminum housing, the HDD-M4-1-RM is perfectly suited towards applications that are space constrained and require equipment with lower power consumption and heat output. The front faceplate has push-button controls for configuration as well as status LED's. SNMP network management support allows remote interfacing for control and system diagnostics.

Application Diagram



HDD-M4-1-RM

Video & Audio IP Decoder



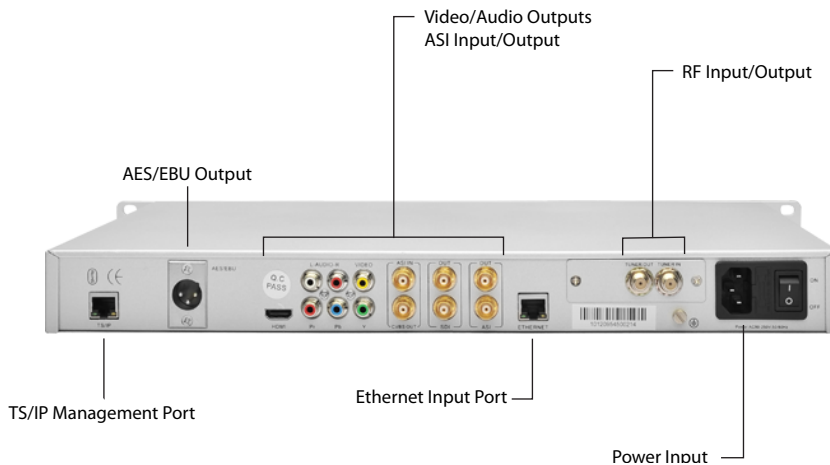
DATASHEET

IP ENCODING & DECODING

Models

Model	Description
HDD-M4-1-RM	MPEG-2 & MPEG-4 (H.264/AVC) Video/Audio Decoder, 1RU Rackmount

Connection Diagram



TS Stream Input Interfaces

Specifications	Values
DVB-S/S2	QPSK, 8PSK (1-45 Mbps)
DVB-T	COFDM, 2K & 8 K FTT (0.45-7 Mbps)
DVB-C	QAM (16/32/64/128/256) (3-7 Mbps)
DVB-ASI	BNC, 75 Ohm
TS/IP	1G, MPEG-2/MPEG-4 TS over UDP & RTP

Outputs

Specifications	Values
Video	1 HDMI, 2 HD/SD-SDI, 2 DVB-ASI, 1 YPbPr, 2 CVBS (1 BNC, 1 RCA)
Audio	1 AES3 (XLR), 1 stereo pair (RCA)

Video Decoding

Specifications	Values
Compression	MPEG-2, MPEG-4/H.264 AVC (SD & HD)
Resolutions	1080i @ 60/50 Hz 720p @ 60/50 Hz 576i @ 50 Hz 480i/480p @ 60 Hz
Formats	NTSC, PAL, SECAM
Broadcast Type	Unicast & multicast

Audio Decoding

Specifications	Values
Compression	MPEG-1 and MPEG-2 Layer I, II

General

Specifications	Values
Input Power	90~250 VAC, 50/60 Hz
Power Consumption	30 Watts (max)
Weight	8.16lbs (3.7kg)
Dimensions	1.73" (1RU) H x 19" W x 10.79" D (44mm x 484mm x 274mm)
Operating Temperature	32 - 113° F (0 - 45° C)
Operating Humidity	10% - 80% Relative Humidity
Storage Temperature	23 - 122° F (-5 to 50° C)
Storage Humidity	0% - 90% (non-condensing)

Monitoring & Control

Specifications	Values
Front Panel	Keyboard, LCD display, Status LED's
Remote	TCP/IP, Network management software for full control & system diagnostics

Compliance

