

# EN4HDMI

## 2/4-Channel MPEG-2/H.264 HD HDMI Encoding Module



### OVERVIEW

EN4HDMI is a multi-channel MPEG-2 / H.264 HD encoding module that compresses programs from HDMI inputs into MPEG-2 / H.264 HD / SD streams.

With efficient video codecs and AAC/AC-3 audio options, EN4HDMI provides excellent video quality while using minimal bandwidth, making it the ideal choice for various content delivery applications.

### KEY FEATURES

- MPEG-2/4 HD compatible
- Up to 4 encoded programs via HDMI inputs
- MPEG2, AC-3 and AAC audio support
- Platform-based Modular Design

### ORDERING INFORMATION

Model	Description
WAV-DMPSMP-EN4HDMI-2M2A00	2-CH MPEG-2/4 & HD HDMI encoding module (MPEG1L2 audio supported)
WAV-DMPSMP-EN4HDMI-2M2A01	2-CH MPEG-2/4 & HD HDMI encoding module (MPEG1L2/AC3/AAC audio supported)
WAV-DMPSMP-EN4HDMI-4M2A00	4-CH MPEG-2/4 HD HDMI encoding module (MPEG1L2 audio supported)
WAV-DMPSMP-EN4HDMI-4M2A01	4CH MPEG-2/4 HD HDMI encoding module (MPEG1L2/AC3/AAC audio supported)
WAV-DMPSMP-EN4HDMI-AC3	AC3 License for EN4HDMI-xM2A01 (One per Audio Pair)
WAV-DMPSMP-EN4HDMI-AAC	AAC License for EN4HDMI-xM2A01 (One per Audio Pair)
WAV-SMP100-CHASSIS	Chassis 1RU, embedded MUX and IP/ASI, 3x slots
WAV-DMP900-CHASSIS	Chassis 1RU, embedded MUX, 6x slots, Dual PSU, hot-swappable

### SPECIFICATIONS

#### Channels

**Video:** 4 channels of HD/SD programs (EN4HDMI-4M2Axx)  
2 channels of HD/SD programs (EN4HDMI-2M2Axx)

**Audio:** 4 pairs of audio (EN4HDMI-4M2Axx)  
2 pairs of audio (EN4HDMI-2M2Axx)

#### Input

**Interface:** 4 x HDMI physical ports (1.4)  
4 ports available (EN4HDMI-4M2Axx)  
2 ports available (EN4HDMI-2M2Axx)

#### Output/Encoding

**H.264/AVC Profile (4:2:0):** SD: MP/HP@L3.0/3.1/3.2  
HD: MP/HP@L4.0/4.1/4.2

**MPEG-2 Profile (4:2:0):** SD: MP@ML

**Resolution:** 1920 x 1080@25p, 30p, 50i, 60i  
1280 x 720@50p, 60p  
720 x 576@50i  
720 x 480@60i

**Rescaling:** HD to SD down conversion

**Video Bit-rate:** MPEG-2: 1Mbps ~ 14 Mbps  
H.264: 1Mbps ~ 20 Mbps

**Rate Control:** CBR & VBR

**GOP Control:** Support

**Aspect Ratio:** Automatic  
Manual: 4:3 or 16:9 (future option)

**Aspect Processing:** Letterbox/Cropped (future option)

## EN2SDI-2HD

2-Channel MPEG-2/H.264 HD Encoding Module

### SPECIFICATIONS

Audio Encoding	
Audio Codecs:	MPEG-1 Layer II AC-3 AAC (LC/HE)
Audio Bit-rate:	MPEG-1 LayerII: 64 - 384 kbps AC-3: 32 - 504 kbps AAC: 32 - 504 kbps
Audio Mode:	Stereo (2.0, including down-mix)
Audio Sampling Rate:	48kHz
Audio Volume Leveling:	0-8dB