

# EN4HDMI



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



### OVERVIEW

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

- Video encoding to H.264 HD/SD or MPEG-2 SD
- 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	2CH MPEG-2/4 HD HDMI encoding module (MPEG1L2 audio supported)
WAV-DMPSMP-EN4HDMI-2M2A01	2CH MPEG-2/4 HD HDMI encoding module (MPEG1L2/AC3/AAC audio supported)
WAV-DMPSMP-EN4HDMI-4M2A00	4CH 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, 3 x slots)
WAV-DMP900-CHASSIS	Chassis (1RU, embedded MUX, 6 x slots, Dual PSU, hot-swappable)



# SPECIFICATIONS

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

### 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)
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### 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)

### 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