

# EN5-4H/1U



## HEVC/H.265 Encoding Module

### Introduction

EN5-4H/1U is an HEVC/H.265 encoding module for DMP900 platform. (A DMP900 contains up to 5 modules which is at max. 20 FHD or 5 UHD encoding capability.)

With 30-50% bitrate reduction compared to MPEG-4 AVC (H.264), HEVC provides compression efficiency required to distribute 4K TV programs via existing bandwidth, a key requirement for service providers to upgrade.

As the first ever chip-based encoder, EN5-4H/1U gives more stable and lower power consumption features against the software-based solution.

It can also integrate with various Audio Codecs and support comprehensive ancillary data and metadata, fully satisfying further needs of contribution or primary distribution.



### Order Information

Input	
EN5-4H	HEVC/H.265 encoder 4 FHD/HD programs
EN5-1U	HEVC/H.265 encoder 1 UHD or 4 FHD/HD programs

### Specifications

Input	
Interface	Quad 3G/HD-SDI input
	HDMI 2.0 input (future)
Audio Encoding	
Audio Channels	Up to 4 stereo pairs per service
Audio Profile	MPEG-1 Layer II
	Dolby Digital (AC-3)
	Dolby Digital Plus (E-AC3)
	AAC (LC/HE/HE v2)
Audio Bit-rate	MPEG-1 Layer II: 64 - 384 Kbps
	AC3: 32 - 384 Kbps
	E-AC3: 32 - 384 Kbps
	AAC: 32 - 384 Kbps
	Max. 504Kbps@5.1mode (future)
Audio Mode	Stereo (2.0, including down-mix), 5.1 (future)
Audio Sampling Rate	48KHz
Audio Volume Leveling	Support
Others	
Closed Caption	Future

Video Encoding	
HEVC/H.265 Profiles	Main
	Main 10
	Main 10 4:2:2
	Main still picture
Level	4.0~6.2
Resolution	3840x2160 (UHD)
	1920x1080 (FHD/HD)
	1280x720
Bit Depth	8/10 bit
Frame Rate	60p/i, 59.94p/i, 30p, 29.97p, 23.97p
	50p/i, 24p (future)
Rate Control	CBR, VBR (future), Capped VBR (future)
GOP Control	Support
Aspect Ratio	Automatic
	Manual (future)
	Letterbox/cutting (future)
Latency	0.5s (low latency mode, future)
	1.0s
	3.0s (default)
HDR	HDR 10 (future)