

# CMP308-01

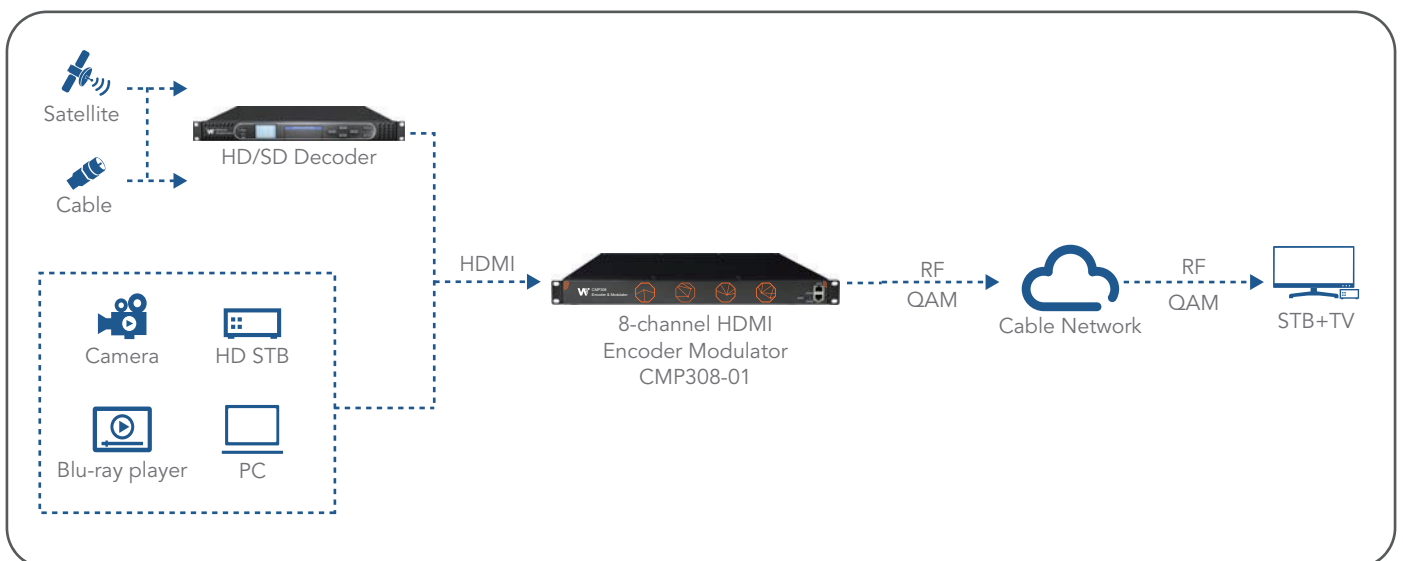
8-channel HDMI H.265/H.264  
Encoder Modulator



## INTRODUCTION

CMP308 is a professional device integrating encoding, multiplexing and modulation. With 8-channel HDMI signals coming from STBs, camcorders or surveillance cameras, CMP308 can perform high-quality and high - efficiency H.265/H.264 encoding. It also supports customized logo/QR code/OSD insertion, enriching users' valued-added services and boosting their profits. The device also supports QAM output via 4 carriers. Given its high-density design, user-friendly configuration and cost-effectively nature, CMP308 is an ideal choice for CATV head-end system, which is widely used in hotels, hospitals, apartments, pension institutions, bars, etc.

## SYSTEM DIAGRAM



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## FEATURES

- Supports 8 channel HDMI inputs and 4 QAM outputs
- Supports H.265/H.264 video encoding
- Supports de-interlacing, noise cancelation and PCR correction to provide high quality video
- Customized Logo/QR code/OSD insertion with position/font/color adjustment
- OSD insertion (Language Supported: Chinese, English and Thai and more)
- Supports audio encoding with MPEG-1 Layer II, AAC (optional), AC3 (optional) with audio volume adjustment
- Service level multiplexing
- NIT/BAT editing and LCN allocation
- Web-based UI with on-site/remote monitoring via SNMP protocol

## SPECIFICATIONS

Input	
8 channels via 8 HDMI female connectors (HDMI 1.4)	
Video Encoding	
Video	H.264/AVC MP/HP@3.1 (720P) H.265/HEVC MP@L3.1 (720P) H264 MP/HP@L4.2 (1080P) H.265/HEVC MP@L4.1 (1080P)
Resolution	HD: 1080p-29.97/30, 1080i-29.97/30/50/59.94/60, 720p-50/59.94/60 SD: 576p50, 576i50, 480p-59.94/60, 480i-59.94/60 *Output supports progressive only, and resolution supports up to 1080p30.
Bit-rate	600~10000 Kbps
Rate Control	CBR
GOP Structure	IPPP
GOP Size	1~60
Aspect Ratio	Automatic or Manual
Additional Feature	De-interlacing, noise cancelation
Audio Encoding	
Encoding Format	MPEG-1 Layer 2, AAC (optional), AC3 (optional)
Bitrate	96~192 Kbps
Audio Mode	Stereo 2.0
Sampling Rate	48KHz
Volume Level	-20dB~20dB

OSD Overlay	
Text, Image, QR Code	
Multiplexing	
Service-level multiplexing, PID remapping (automatic or manual)	
PCR correction	
PSI/SI auto-generation	
QAM Modulation	
QAM Channel	4 frequencies via 1 RF female connector, 75Ω
Standard	ITU-T J.83 Annex A/C
Frequency Range	47~862MHz, 1KHz step
Constellation	16QAM/32QAM/64QAM/128QAM/256QAM
Bandwidth	6/7/8MHz
Symbol Rate	4.035~6.9 Ms/s
MER	≥32dB
Output Level	Max.105dBμV
System	
Web based management	
SNMP Centralized management, support SNMP traps	
Ethernet software upgrade	
Physical& Environment	
Chassis Dimension	444mm x 44mm x 336mm (W×H×D), 1RU
Temperature Range	0~50 C (operation); -10~70 C (storage)
Input Voltage	100-240 VAC, 50/60Hz

## ORDER INFORMATION

Model	Description
CMP308-01	8-channel HDMI HD Encoder Modulator, supports H.265/H.264 video encoding and MPEG-1 Layer 2 audio encoding, AAC (optional),AC3 (optional), up to 4-channel QAM modulation output

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