

CMP308-01

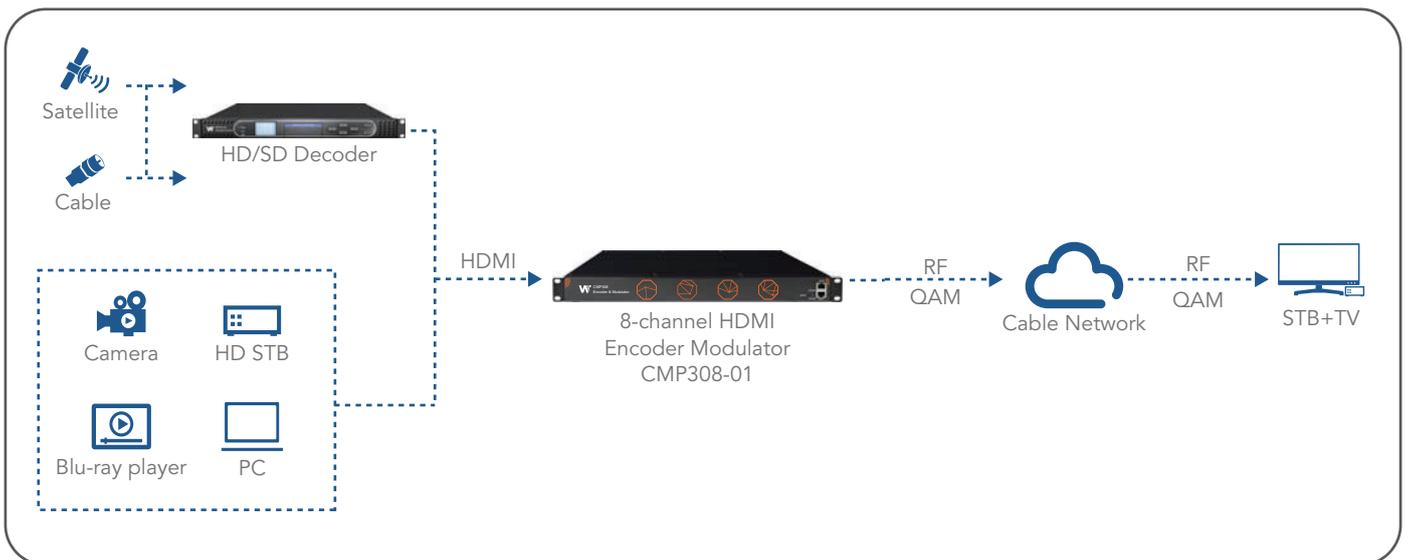
8-channel HDMI H.265/H.264
Encoder Modulator



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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