

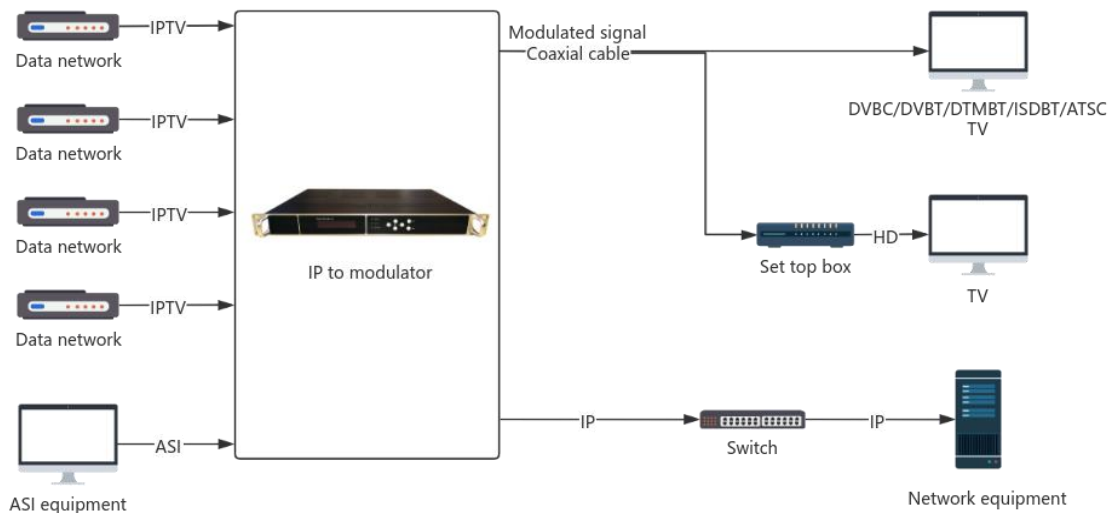
HPM3XX-N IP to Modulator

Product Overview

HPM3XX-N IP to Modulator are Catcast's latest research and development of a digital TV front-end audio and video processing cost-effective equipment, can achieve IP, ASI input to modulation output . supports 2 Gigabit inputs and 1 Gigabit output, supports multiple protocol inputs (RTMP/HTTP/RTSP/HLS/SRT) , supports 6 ASI inputs.The device can select 8/12/16/24 carrier output according to customer needs.The device has excellent performance and flexible configuration, using 1U chassis, compact structure, easy to install and use. A single device integrates a whole set of front-end system functions, which is very suitable for a variety of new generation digital TV broadcasting systems.



System function diagram



HPM3XX-N IP to Modulator

Product features

- Provides 3 gigabit port input/output
- Supports **RTMP/HTTP/RTSP/HLS/SRT** input(DATA1) , UDP/RTP input(DATA3)
- Supports 6 ASI inputs
- Supports 8/12/16/24 carrier output (**DVB-T/- C/DTMBT/ATSC/ISDBT** optional)
- Supports 8 MPTS output (DATA2,UDP/RTP)
- Integrated multiplexing and modulating functions
- Using 1U chassis, a single device integrates a set of front-end device functions, saving installation and wiring space
- Supports network management (Web)
- Support online upgrades

Product model selection

| Product model | Device ports | Input | Output |
|---------------|---|--------------------------------|---|
| HPM308-N | 3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out | 2 Gigabit input 6 ASI input | 8 carrier output; (Total output bandwidth:192MHz) 1 Gigabit output(8 MPTS) |
| HPM312-N | 3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out | 2 Gigabit input 6 ASI input | 12 carrier output; (Total output bandwidth:192MHz) 1 Gigabit output(8 MPTS) |
| HPM316-N | 3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out | 2 Gigabit input 6 ASI input | 16 carrier output; (Total output bandwidth:768MHz) 1 Gigabit output(8 MPTS) |
| HPM324-N | 3 Gigabit port; 1 NMS port; 6 ASI port; 1 RF out | 2 Gigabit input 6 ASI input | 24 carrier output; (Total output bandwidth:768MHz) 1 Gigabit output(8 MPTS) |

HPM3XX-N IP to Modulator

Product structure



| Number | Interface Overview |
|--------|--|
| 1 | LCD |
| 2 | Keys and indicator lights |
| 3 | RF out: Frequency Output |
| 4 | NMS: Network Management System DATA1: IP input ,RTMP/HTTP/RTSP/HLS/SRT protocol DATA2: IP output, MPTS over UDP/RTP protocol DATA3: IP input ,UDP/RTP protocol |
| 5 | ASI IN: Serial TS Input (Any Multiplex) |
| 6 | Power Switch |

HPM3XX-N IP to Modulator

Specifications

| | | | | |
|-----------------|---|---|-----------------------------|--|
| Input | 2 IP inputs (DATA1:RTMP/HTTP/RTSP/HLS/SRT input; DATA3 : UDP/RTP input) | | | |
| | 6 ASI input | | | |
| Output | RF output | 1 RF output interface, F-type connector, 75Ω impedance | | |
| | | RF output 8/12/16/24 carrier (DVB-T/ATSC/ISDBT/DMBT) or 32 carrier (DVB-C) optional | | |
| | IP output | 8 MPTS output (DATA2) | | |
| Modulation Mode | DVB-T | Standard | EN300744 | |
| | | FFT | 2K | |
| | | Bandwidth | 6M, 7M, 8M | |
| | | Constellation | QPSK, 16QAM, 64QAM | |
| | | Guard Interval | 1/4, 1/8, 1/16, 1/32 | |
| | | FEC | 1/2, 2/3, 3/4, 5/6, 7/8 | |
| | | MER | ≥37dB | |
| | | RF frequency | 96~864MHz, 1KHz step | |
| | | RF output level | -35~ -5dBm, 0.1db step | |
| | DVB-C | Standard | EN300 429/ITU-T J.83A/B/C | |
| | | MER | ≥37db | |
| | | RF frequency | 96~864MHz, 1KHz step | |
| | | RF output level | -35~-5dBm , 0.1dBm step | |
| | | SR | 5.0Msps~7.0Msps, 1ksps step | |
| | | Constellation | 16/32/64/128/256QAM | |
| | | Bandwidth | 6~8M | |
| | DTMBT | Standard | DTMB GB20600-2006 | |
| | | Constellation | 4QAM、16QAM、32QAM、64QAM | |
| | | MER | ≥37dB | |
| | | RF frequency | 96~864MHz, 1kHz step | |
| | | RF output level | -35dBm~-5dBm, 0.1dB step | |
| | ATSC | Standard | ATSC A/53 | |
| | | MER | ≥37dB | |
| | | RF frequency | 96~864MHz, 1KHz step | |
| | | Constellation | 8VSB | |
| | ISDBT | Standard | ARIB STD-B31 | |
| | | FFT | 2K | |
| | | Constellation | QPSK, 16QAM, 64QAM | |
| | | FEC | 1/2, 2/3, 3/4, 5/6, 7/8 | |
| | | Hierarchical mode | A | |
| | | Bandwidth | 6M | |
| | System | Web/NMS | | |
| | | Chinese/English | | |
| Miscellaneous | Dimensions | 482mm×300mm×42mm | | |
| | Weight | 4kg | | |
| | Temperature | 0~45°C(Operation); -20~80°C(Storage) | | |
| | Voltage range | AC100~240V, 50/60Hz | | |
| | Power consumption | <30W | | |