# CatCast

## HPR2401D

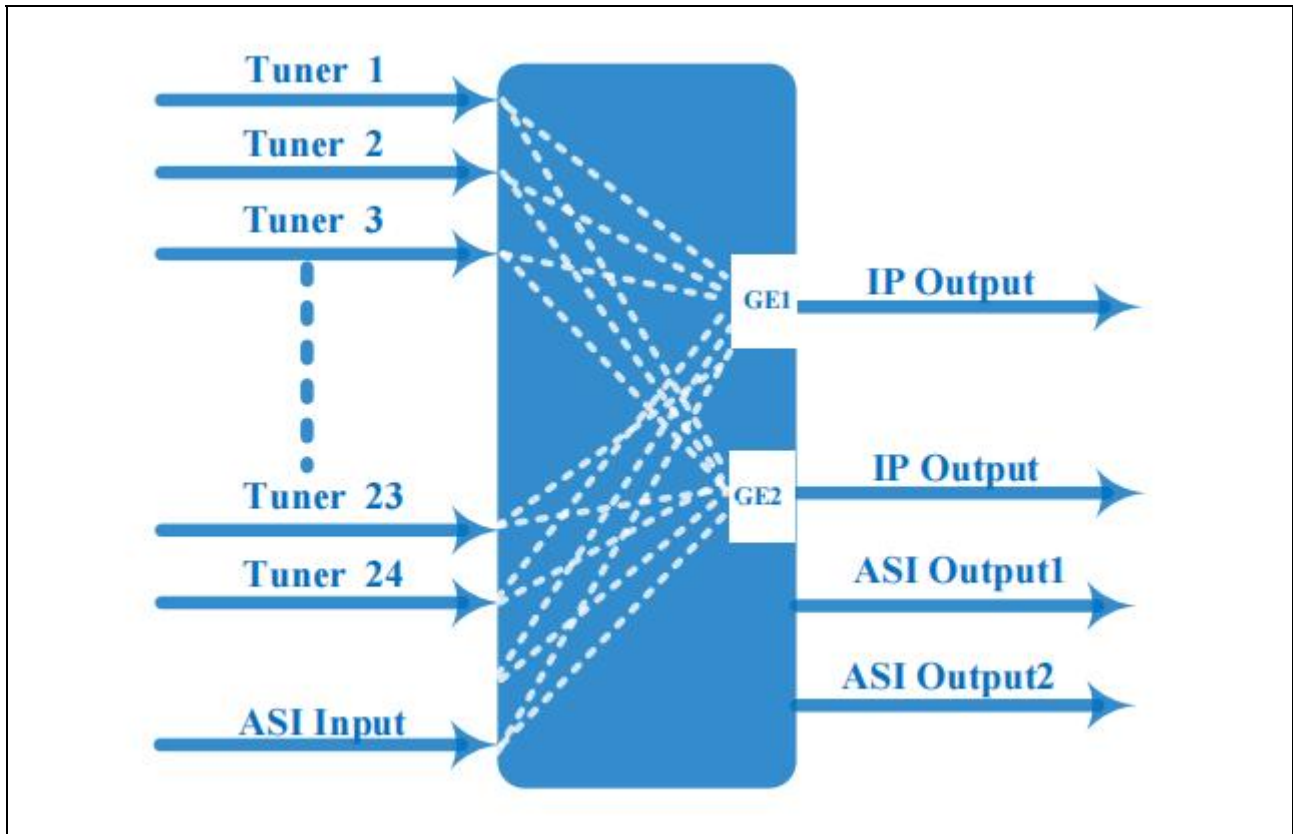## 24 DVB-S2X Tuner to IP Gateway



## Outline

HPR2401D-24 Tuner to IP Gateway is a head-end interface conversion device which supports MPTS and SPTS output switchable. It supports 24 MPTS+2 MPTS(ASI and USB) or 1024 SPTS output over UDP and RTP/RTSP protocol. It is integrated with tuner demodulation (or ASI input) and gateway function, which can demodulate the signal from 24 tuners into IP package, or directly convert the TS from ASI input and tuner into IP package, then output the IP package through different IP address and ports. BISS function is also embedded for tuner input to descramble your tuner input programs.

## Key Features

- Support 24 FTA DVB- S/S2/S2X input, 1 ASI input, 1USB input
- Support BISS descrambling
- Support DisEqc function
- 24 MPTS+2 MPTS(ASI and USB port) or 1024 SPTS output (MPTS and SPTS output switchable)

- 2 GE output (IP address and port number of GE1 and GE2 are different), up to 850Mbps---SPTS

- 2 independent GE output port, GE1（512 SPTS）+ GE2（512 SPTS）--- ( total 26 MPTS )

- Support PID filtering, re-mapping (Only for SPTS output)

- Support "Null PKT Filter" function (Only for MPTS output)

- Support Web operation

## Working Principle



## Specifications

| Input | | 24 tuners input +1 ASI input +1 USB input---SPTS/MPTS output | |
|---|---|---|---|
| Satellite | DVB-S | Frequency In | 950~2150MHz |
| | | Symbol rate | 0.5~45Msps |
| | | Signal Strength | - 65- -25dBm |
| | | FEC | 1/2, 2/3, 3/4, 5/6, 7/8 |
| | | Constellation | QPSK |
| | | Max input bitrate | ≤125 Mbps |
| | DVB-S2 | Frequency In | 950~2150MHz |
| | | Symbol rate | QPSK/8PSK /16APSK :0.5~45 Msps<br>32APSK: 0.5~34Msps; |
| | | FEC | QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10<br>8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 |

| | | | |
|---|---|---|---|
| | | | 16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 |
| | | | 32APSK: 3/4, 4/5, 5/6, 8/9, 9/10 |
| | | Constellation | QPSK, 8PSK, 16APSK, 32APSK |
| | | Max input bitrate | ≤125 Mbps |
| | DVB-S2X | Frequency In | 950~2150MHz |
| | | Symbol rate | QPSK/8PSK /16APSK :0.5~45 Msps<br>8APSK: 0.5~40Msps<br>32APSK: 0.5~34Msps |
| | | FEC | QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 13/45, 9/20, 11/20<br>8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10<br>8APSK: 5/9-L, 26/45-L<br>16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10, 1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L, 28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9, 77/90<br>32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L, 32/45, 11/15, 7/9 |
| | | Constellation | QPSK, 8PSK, 8APSK, 16APSK, 32APSK |
| | | Max input bitrate | ≤125 Mbps |
| **BISS Descrambling** | Mode 1, Mode E (Up to 850Mbps) (descramble individual program) | | |
| **Output** | 1024 SPTS IP output over UDP and RTP/RTSP protocol through GE1 and GE2 port (IP address and port number of GE1 and GE2 are different) , Unicast and Multicast | | |
| | 26 MPTS IP output (for Tuner/ASI/USB pass-through) over UDP and RTP/RTSP protocol through GE1 and GE2 port, Unicast and Multicast | | |
| | 2 ASI output | | |
| **System** | Web based management | | |
| | Ethernet software upgrade | | |
| **Miscellaneous** | Dimension | 482mm×230mm×44mm (W×L×H) | |
| | Approx weight | 2.5kg | |
| | Environment | 0~45℃(work); -20~80℃ （Storage） | |
| | Power requirements | 100~240VAC, 50/60Hz | |
| | Power consumption | 20W | |