# CatonMediaBridge

## Media IO Platform



- Cost Effective
- Any Input / Any Output
- Compact Design
- Module-based
- Reliable Dual Power
- Future Upgrading

## Introduction

CatonMediaBridge is a cost-effective, platform-based and multipurpose video processing equipment targeted for various video delivery application.

With multiplexing/ASI/IP built in the platform, CatonMediaBridge supports 3 functional modules for receiving, encoding and decoding.

Customers can easily adopt a video service or turn around your service into IP-based network or leverage its high density to support multi-channel video processing with less investment.
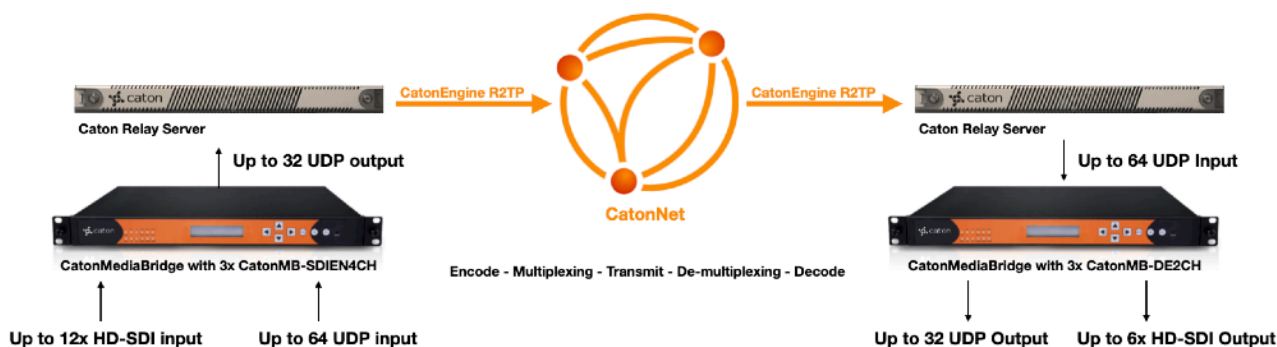
## Key Features

- Compact modular design: 1RU with 3 modules (see available modules in 'ordering information')
- Supports up to 4Gbps video multiplexing and TS stream multiplexing/grooming
- Supports EIT multiplexing (optional) and EPG/SI insertion (both DVB and ATSC standard)
- Embedded ASI/IP interfaces in the main chassis
- Dual redundancy power supply (optional)
- Easy configuration tools: Web-UI and SNMP
- Easy upgrade to new technologies with only module replacement
- Low power consumption and high reliability with MTBF (Mean Time Between Failure) ≥100,000 hours
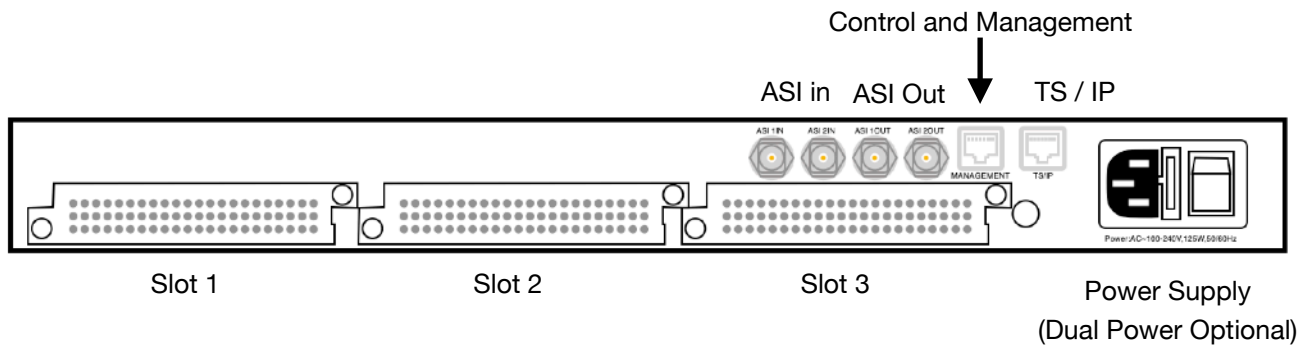
## Applications

CatonBridge is typically used for these applications:

Distribution/delivery, digital turn-around, local program insertion, MDU, etc

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## Media IO Platform



Control and Management

ASI in ASI Out TS / IP

Slot 1 Slot 2 Slot 3 Power Supply
(Dual Power Optional)

## Specifications

| Chassis | |
|---|---|
| Capacity | 4Gbps (approx. 1000 programs) |
| Slot Number | 3 slots |
| Interface | 2 x ASI Inputs (BNC, Female, 75Ω ports) |
| | 2 x ASI Outputs (BNC, Female, 75Ω ports) |
| | 1 x GbE TS/IP (RJ45) |
| | 1 x management (RJ45) |

| Physical | |
|---|---|
| Input Voltage | 90~260 VAC |
| Dual Power Supply | Optional |
| Power Consumption | Max. 60W |
| Chassis Dimension | 480mm x 44mm x 440mm (WxHxD), 1RU |
| Operating Temperature | 0°C~50°C |
| Storage Temperature | -10°C~70°C |
| Operating Humidity | <95% |
| MTBF | ≥100,000 hours |

| IP (on-chassis) | |
|---|---|
| Protocol | TS over UDP/RTP, unicast/multicast |
| MPEG TS | MPTS and SPTS |
| Stream | 64 streams input and 32 streams output |
| Bit-rate per Port | Max. 780Mbps (effective 650Mbps) |
| De-jittering | PCR |
| Management | IGMP V1, IGMP V2, IGMP V3 |
| FEC | ProMPEG, input and output |

| Multiplexing | |
|---|---|
| Routing | Any input to any output |
| Table Supported | SI/PSI/PSIP |
| PID Processing | Pass-through, remapping, filtering |
| EIT Processing | Re-multiplexing (optional) and pass-through |
| External Data | EPG and SI insertion |

| ASI (on-chassis) | |
|---|---|
| Bit-rate per Port | 1 MPTS/SPTS at max. 100Mbps per port |

| Management | |
|---|---|
| Hardware Interface | 1 x RJ45 (100Mbps) |
| User Interface | LED indicators |
| | LCD screen |
| | Front panel control |
| | Web UI |
| | SNMP (monitoring only) |

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### Order Information

| Model | Description |
|---|---|
| CatonMB | Chassis with 3 slots, Single Power Supply |
| CatonMB-2PS | Chassis with 3 slots, Dual Power Supply |
| CatonMB-SDIEN2CH | Encode H.264, SDI/CVBS input, 2 channels, support MPEG2/AAC/AC3 Audio |
| CatonMB-SDIEN4CH | Encode H.264, SDI/CVBS input, 4 channels, support MPEG2/AAC/AC3 Audio |
| CatonMB-HDMIEN2CH | Encode H.264, HDMI input, 2 channels, support MPEG2/AAC/AC3 Audio |
| CatonMB-HDMIEN4CH | Encode H.264, HDMI input, 4 channels, support MPEG2/AAC/AC3 Audio |
| CatonMB-IPASI | TS over IP I/O & ASI I/O Module |
| CatonMB-DE2CH | 2-CH SD & HD SDI & HDMI Decoding Module, close caption support |
| CatonMB-DE4CHCVBS | Decoding module (4CH, CVBS) |
| CatonMB-ENAUDIO4CH | 4CH Audio Encoding Module (MPEG1L2, DRA, AAC and AC3 audio supported) |

### CatonMB-SDIEN4CH



CatonMB-SDIEN4CH is a 4-channel encoding module that can be installed in CatonMediaBridge chassis to encode programs into H.264 HD/SD or MPEG-2 SD profiles SDI or CVBS. And supports AAC (HE/LC) or AC3 encoding and has a 2nd MPEG1L2 audio option for each program.

### CatonMB-HDMIEN4CH



CatonMB-HDMIEN4CH is a multi-channel H.264/MPEG-2 encoding module that can encode maximum 4 programs into H.264 HD/SD or MPEG-2 SD profiles via HDMI input. With high-efficient codec and AAC/AC3 options, it provides and excellent video quality with acceptable bandwidth and thus can be widely deployed in various content delivery cases.

### CatonMB-IPASI



CatonMB-IPASI module supports 2 independently configurable ASI ports for input or output and 1 Ethernet port for 64 IP input and 32 IP output channels with an extra Ethernet port as redundancy IP output.

### CatonMB-DE2CH



CatonMB-DE2CH is a 2-channel decoding installed in SMP100 or DMP900 chassis to programs of H.264/MPEG-2 HD/SD HDMI interfaces.

### CatonMB-DE4CHCVBS



CatonMB-DE4CHCVBS module supports up to 4 MPEG4/MPEG2 SD channels decoding and MPEG1/2, AAC or Dolby AC3 audio decoding. With the compact design, it decodes more programs yet maintaining high quality audio/video output, which provides digital TV operators with the best choice in the massive SD channel decoding application.

### CatonMB-ENAUDIO4CH



CatonMB-ENAUDIO4CH is a 4ch audio encoding module that can be installed in CatonMediaBridge chassis to encode balanced/unbalanced analog or digital audio (AES/EBU) into MPEG1L2/DRA/AAC/AC3 audio format.