High Capacity Digital Media Gateway

DMG 4000 POWERED BY appear

DCM HARWARE ALTERNATIVE

The hardware-based DMG 4000 platform provides a feature rich toolset to replace and expand capabilities in existing Cisco DCM applications in high density 1RU or 2RU form factors.

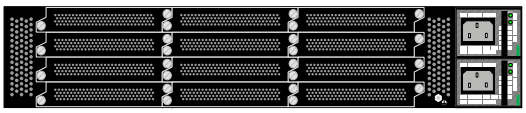
With a backplane latency of less than 1ms and fully configurable de-jittering buffers the DMG 4000 platform provides a high density, low latency solution for real time media processing applications.

Specifically designed with multiple use cases in mind, the 4100/4200 chassis features high capacity IP and ASI transport stream switching and processing capacity combined with high density, low latency real-time compression and transcoding options.

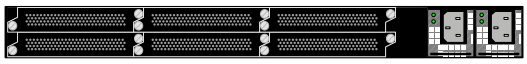
The DMG 4000 platform delivers media centric, easy to deploy, high-capacity firewall capabilities, supporting many advanced features encompassing authentication, authorization and auditing. Security is assured by a FPGA based IP packet forwarding mechanism and internal network structure. In addition to serving as an IP firewall the DMG 4000 platform also provides transport layer scrambling and descrambling options to further ensure the security of your content.

The DMG 4000 platform supports conversion of uncompressed video from/to SDI and SMPTE ST2110 with options for AVC, HEVC or ultra-low latency JPEG XS codecs.

2RU - DMG 4200



1RU - DMG 4100



POWERFUL	160Gbps throughput and sub 1ms backplane latency
FLEXIBLE	Select and combine multiple function modules to meet your solution needs
HIGH DENSITY	Available in 1 RU or 2RU with up to 12 module slots per 2RU chassis
SECURE	IP firewall with bandwidth policing, supports physical ethernet interface separation and NAT applications
REDUNDANCY	2022-1 FEC and 2022-7 seamless switching available for input and output flows
UPTIME	Hot swappable Dual power supplies & Fans, optional dual switch cards and data backplanes provide maximum resiliency and uptime

SPECIFICATIONS

INPUTS
- MPEG TS over IP multicast or unicast
- SMPTE 2110 Inputs
- ASI
- Satellite demodulation
- SDI encoding
- Zixi and SRT
- SD, FHD, and UHD support

OUTPUTS
- MPEG TS over IP multicast or unicast
- SMPTE 2110 outputs
- ASI
- Satellite modulation (L-Band or IF)
- SDI decoding
- Zixi and SRT
- SD, FHD, and UHD support

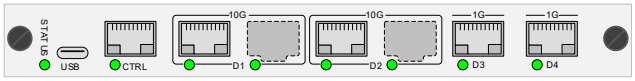
VIDEO PROCESSING
- Supports up to 96 CH FHD encodes
- HEVC, AVC encoding, linear & ABR transcoding, and decoding
- JPEG XS encoding and decoding
- SMPTE2110-20/-22/-30/-31/-40 support
- Video transcoding (UDX and integer frame rate conversion)

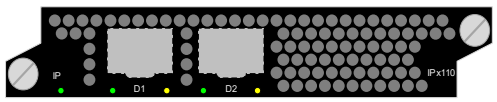
REDUNDANCY
- Redundant traffic backplanes
- SMPTE 2022-1
- SMPTE 2022-7
- Service failover
- OSPF output redundancy
- Routing from any module to any other module

MANAGEMENT & CONTROL
- Web GUI with multiple definable user roles
- Alarm notifications, including SNMP traps
- Syslog
- Integrated prometheus support
- Full API enabling third-party component integration
- NMOS support

SWITCH AND DUAL IP MODULES

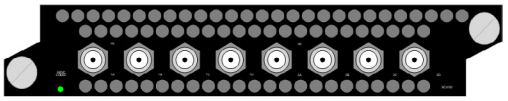
- Management and control with dual redundant IP ports
- SRT and Zixi support on dual IP module

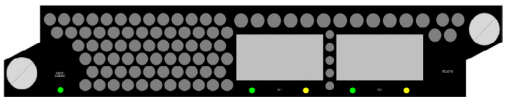




ENCODER AND DECODER MODULES

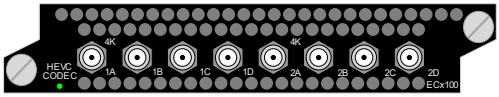
- Available with SDI or 2110 input
- 8HD or 2UHD inputs
- HEVC or AVC encoding/decoding





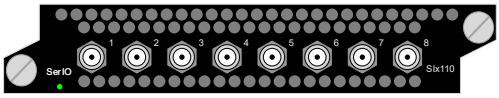
TRANSCODER MODULE

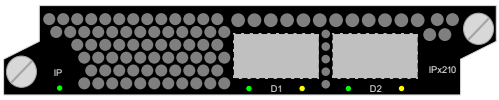
- Linear or ABR transcoding
- HEVC or AVC transcoding
- UDX and integer frame rate conversion



JPEG XS ENCODER AND DECODER MODULES

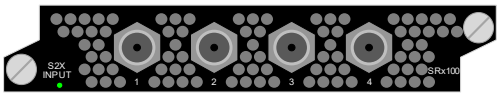
- Available with SDI or 2110 inputs
- TR-07 transport stream and TR-08 SMPTE ST2110-22 options
- JPEG XS encoding or decoding
- 4 FHD or 2 UHD per module





SCRAMBLING AND DESCRAMBLING MODULES

- Verimatrix scrambling and descrambling
- Biss1 and Biss2 support



ASI MODULE

- 8 or 16 port ASI I/O module options
- De-multiplexing, multiplexing, service and PID filtering