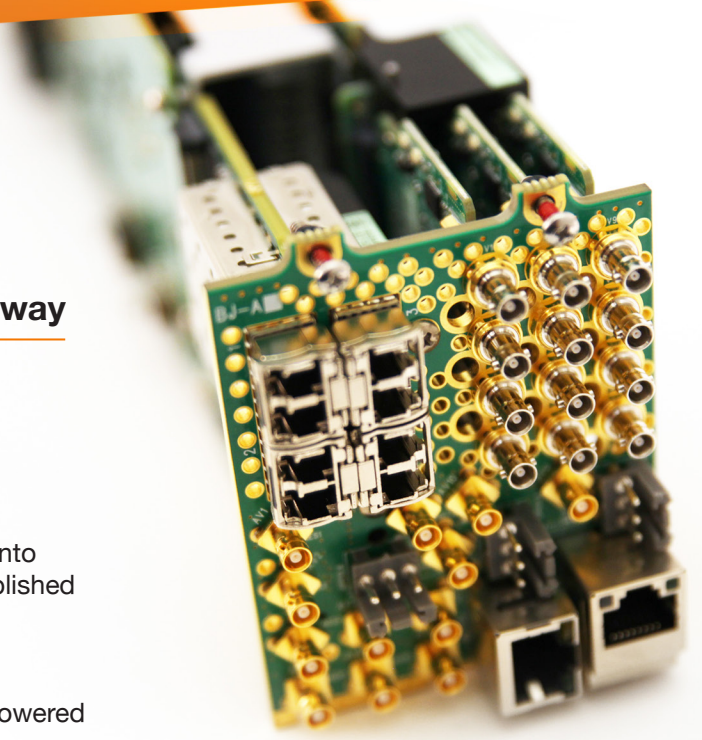# raptor ®
IP GEAR

AIMS-compliant openGear IP Gateway that adapts to your changing needs.

Raptor EDGE | AIMS-compliant Modular IP Gateway

Raptor EDGE meets all SDI/IP conversion needs at the edges of your production core. This openGear appliance's high-density I/O and benchmark IP interoperability ensure a lasting investment designed to meet evolving standards and control requirements.

KEY BENEFITS

> Open control brings freedom of choice: seamless integration into your chosen control system via NMOS, EmBER+/RAVENNA, published JSON API and Ross Video's DashBoard ecosystem.

> Proven interoperability: AIMS-compliant transport and timing technology has been adopted by multiple vendors featuring IP Powered by COVELOZ.

> High-density: up to 60 video streams and 960 audio streams of signal conversion in the compact, 2RU openGear chassis.

> Modularity: 1 to 5 modules may be mounted into an openGear frame offering economical increments of 12 video streams.

> Future-Proof: software defined signal processing functions may be acquired via future license upgrades.

AIMS
Alliance for IP Media Solutions

EMBER+

networked media
NMOS
open specifications

ROSS ®
Production Technology Experts

Raptor EDGE | Specifications

VIDEO FORMAT SUPPORT
- 720p 50 / 59.94 / 60
- 1080i 50 / 59.94 / 60
- 1080p 50 / 59.94 / 60
- 2160p 50 / 59.94 upgradable

IP TRANSPORT STANDARD SUPPORT
- SMPTE ST 2110 suite, including:
  - -10, System Timing and Definitions
  - -20, Uncompressed Active Video
  - -30, PCM Digital Audio
  - -31, AES3 Transparent Transport
  - -40, SMPTE Ancillary Data
- VSF TR-04
- AES67

AUDIO / VIDEO STREAM PROCESSORS
- 12 simultaneous stream processors per RAPTOR-EDGE module
- 6 IP ► SDI streams
- 6 SDI ► IP streams
- Up to 1080p60 supported
- Audio embedding & de-embedding, 16 channels per SDI interface
- 24-bit LPCM @ 48kHz audio support
- Dolby® pass-through (ST 2022-6 mode and ST 2110-31)

SYSTEM TIMING AND REFERENCE
- PTP Slave or Master (SMPTE 2059, AES67 and IEEE-1588 default profiles)
- Black burst / tri-level output and input for bridging PTP to / from analog black
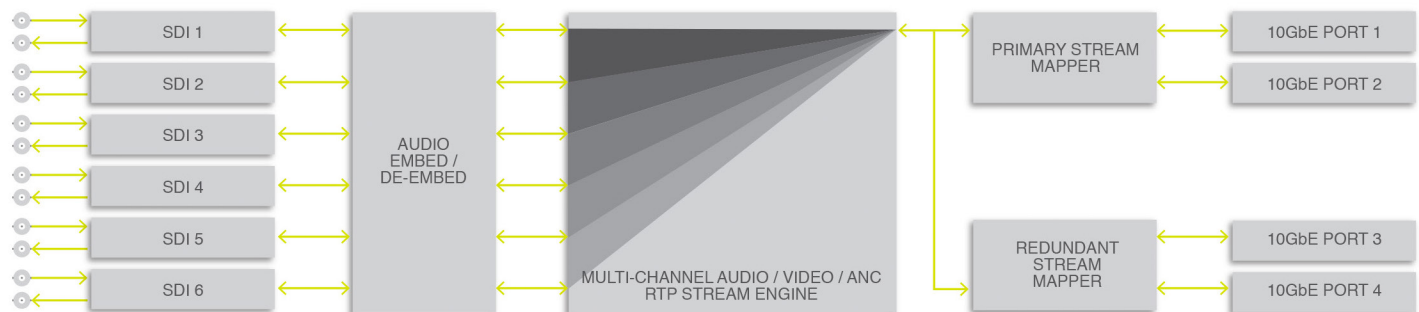
CONTROL AND SETUP
- NMOS IS-04 and IS-05 for AIMS-compliant discovery, registration and connection control
- EmBER+/RAVENNA discovery, registration and connection control from popular 3rd-party control systems
- Provisioning and monitoring via DashBoard and/or our published JSON API

PHYSICAL SPECIFICATIONS
- 4-slot openGear card
- Power consumption: 60W
- Operating temperature 0-40oC

I/O CONNECTIVITY
- 4 x 10GbE SFP+ (2 primary, 2 redundant)
- 6 x HD-BNC input (12G/3G/HD/SD SDI)
- 6 x HD-BNC output (12G/3G/HD/SD SDI)
- 1 x RJ-45 for GbE control interface
- 1 x Internal GbE control interface (OG3 Frame)
- 6 x GPI IO (WECO pluggable terminal block)
- 1 x input sync reference (Blackburst / tri-level)
- 1 x output sync reference (Blackburst / tri-level)

Signal Flow

www.**rossvideo**.com/raptorip

ROSS®
Production Technology Experts