MediaKind G8 Series

High Performance Intel-based Video Processing

The MediaKind G8 platform combines outstanding performance and density for video processing and delivery applications while insuring high service availability.

The MediaKind G8 platform uses the Intel® Xeon® Gold processors. MediaKind uses specific code optimizations on Intel® chipsets, therefore the G8 platform can perform the highest quality compression and processing for premium content .

For service providers, this advanced performance corresponds to a reduction in operating expenses. The G8 platform is built to offer the best ratio cost / density thanks to the right choice of components.

The G8 1000 series is a compact 1RU chassis that offers flexible configuration options, with IP (up to 25 Gb), 3G-SDI and HD-SDI input support. With up to 16 HD-SDI interfaces per 1RU chassis, the G8 1000 series is the high-density encoding solution for broadcast applications.

The G8 1000 series offers dual IP input/output management interfaces, IPMI remote management support, as well as redundant hot-swappable power supplies. Combined with the resiliency capabilities of the MediaKind software suite and redundancy management through MediaKind Management, this further contributes to high service uptime and the delivery of best video practices.

Platform Highlights

High Performance

- Intel Cascade Lake processors
- Designed to support advanced video processing

Efficient Power

- 2 hot-swappable modules
- 80+ Platinum-grade power supplies featuring 92% efficiency

Control and System Level Management

- System-level monitoring for overall system, processing node and power supply health status
- Front panel power button, status LED and Network
- Link / Activity LED for each node
- IPMI support

Specifications—G8 1026 / 1056

Software Compatibility

Software compatibility	Aquila Streaming v4 & v5 (Encoding Live, Packaging), Aquila Broadcast v3, v4 & v5 (Encoding Live, Stream Processing)

Memory

Size	G8 1026: 64 GB memory capacity / G8 1056: 192 GB memory capacity

Network: Management, Input/Output (default port assignment) (1)

	Management	Network Input/Output
G8 1026 / 1056 IP no option	2x 1/10GbE	2x 1/10GbE
G8 1056 2 x 1GbE / 4 x HD-SDI / 8 x HD-SDI	2x 1/10GbE	2x 1/10GbE + 2x 1/1GbE
G8 1056 4 x 1GbE	2x 1/10GbE	2x 1/10GbE + 4x 1/1GbE
G8 1056 16 x HD-SDI	2x 1/10GbE	2x 1/10GbE
G8 1056 2 x 10GbE / 2 x 25GbE	2x 1/10GbE	2x 1/10GbE + 2x 10/25GbE SFP+ (2)
G8 1056 4 x 10GbE	2x 1/10GbE	2x 1/10GbE + 4x 10GbE SFP+

(1) It can be changed to meet the customer system requirements. (2) Input only with 25GbE SFP option.

Physical and Power

Chassis dimensions (H x W x D)	1.7" (43.2 mm) x 17.25" (439 mm) x 28" (712 mm)
Chassis weight	29.3 lbs (13.3 kg)
Power	Input: 115-220 VAC auto-ranging
Consumption	Idle: up to 266 W - Encoding: up to 553 W
Heat dissipation	Idle: up to 1076 Btu/hr - Encoding: up to 2032 Btu/hr
Power supplies	Dual load-balancing hot-swappable 1100 W AC 80 PLUS Platinum
MTBF	35316 Hrs

Specifications—G8 1056

Environmental

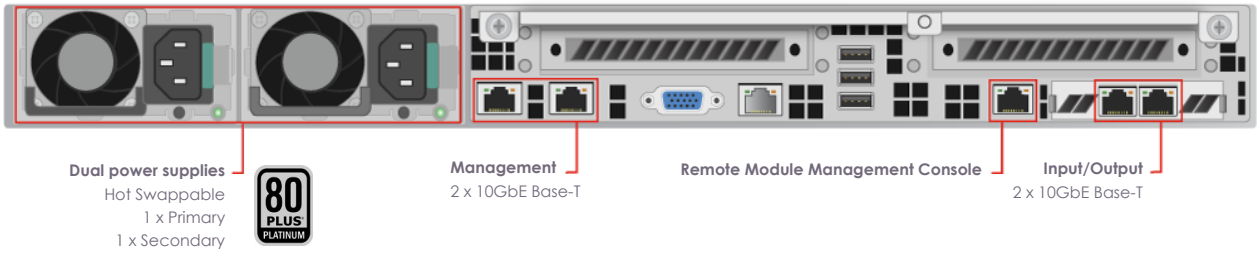
Operating temperature	50 to 95° F (10 to 35° C)
Storage temperature	-40 to 158° F (-40 to 70° C)
Storage humidity	50 to 90% non-condensing with a max. wet bulb of 82.4°F (28° C) at temperatures from 25°C to 35 °C

Compliance

Agency certifications	FCC Class A, CE, CB, VCCI, RoHS-compliant, WEEE-compliant ** Declaration of Conformity: EU, UKCA, EU Authorized Representative Declaration

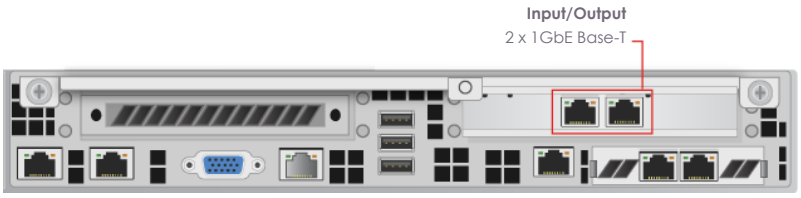
*** See G8 Installation Guide for complete list.*

G8 1026 / 1056: No option

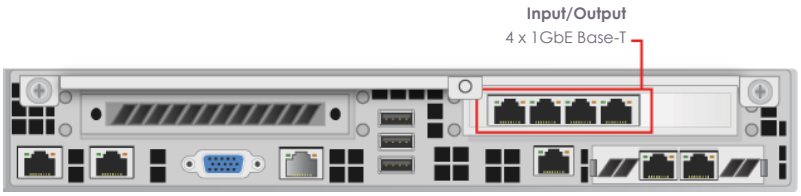


G8 1056: Options

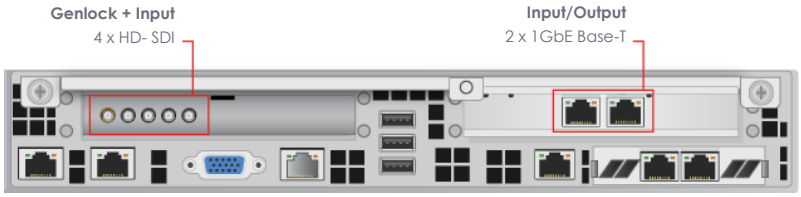
2 x 1GbE



4 x 1GbE

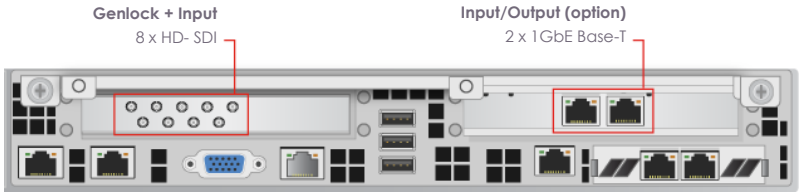


4 x HD-SDI + 2 x 1GbE

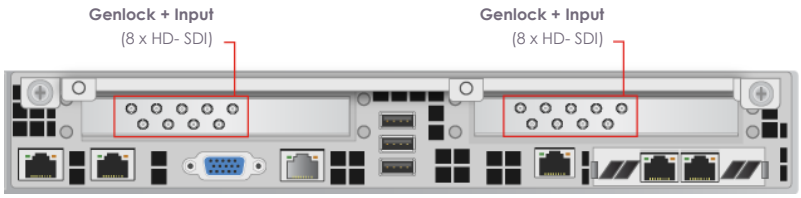


G8 1056: options

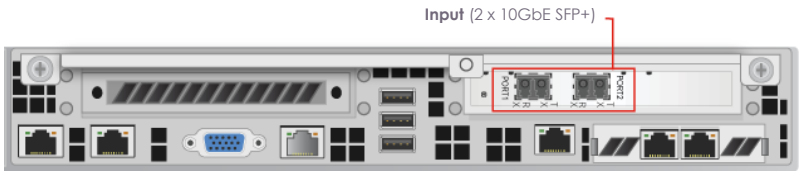
8 x HD-SDI + 2 x 1GbE



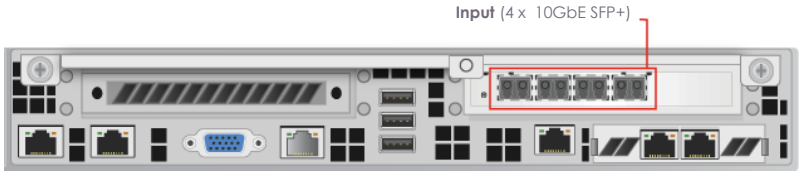
16 x HD-SDI



2 x 10GbE SFP+



4 x 10GbE SFP+



2 x 25GbE SFP+