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 latest generation of Intel ® Xeon® Gold processors. Combined with MediaKind Encoding Live or On-demand specific code optimizations on Intel® chipsets, the G8 platforms can perform the highest quality compression using *Up!* for premium content.

For service providers, this advanced performance corresponds to a reduction in operating expenses. Compared to previous generation appliances, the G8 platforms can process 20% more channels and 20% more transcoding of VOD libraries at once.

G8 is available in 1RU (1000 series) or 2RU (2000 series) form factors. The G8 1000 series is a compact 1RU chassis that offers flexible configuration options, with IP (up to 10 Gbe), 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 2000 series platform is designed for IP based video headend answering the need for rack space control and dense solutions .

Both series offer 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

- Latest generation Intel Xeon Skylake processors
- Designed to support advanced video processing

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

Efficient Power

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

Hot-swappable Processing Nodes

(G8 2000 series)

- 4 independent processing nodes with IP interfaces
- Pluggable and cable-free carrier trays
- 3 managed dual fans per node preventing single point of failure

Specifications—G8 2044 / 2054 / 2074

Software Compatibility

Software compatibility	G8 2044 MediaKind Encoding On-Demand v10.1 and above G8 2054: MediaKind Encoding Live v7.1 and above G8 2074: MediaKind Encoding Live v10.0 and above

Memory

Size	96 GB (G8 2044/2054) or 192 GB (G8 2074) RAM memory per node

Network: Management, Input/Output

IP Input / Output (per node)	4 x Gigabit Ethernet ports per node
Control interface (per node)	Dual 10 Gigabit Base-T Ethernet ports for Management

Physical and Power

Chassis dimensions (H x W x D)	3.42” (86,87 mm) x 17.24” (438 mm) x 30.35” (771 mm)
chassis weight	Fully configured 2 PSU, 4 nodes: 65.50 lbs (30.2 kg)
Power	Input: 90-264 VAC, auto-ranging, 47 Hz-63 Hz
Consumption	Idle: 230 W per node (1050 W total) Encoding: 510 W per node (2080 W total)
Heat dissipation	Idle: 785 Btu/hr per node (3585 Btu/hr total) Encoding: 1741 Btu/hr per node (7102 Btu/hr total)
Power supplies	Dual load-balancing hot-swappable 2130 W AC Common Redundant Power Supply (CRPS), 80 PLUS Platinum
MTBF	265849 Hrs

Specifications - G8 2044 / 2054 / 2074

Environmental

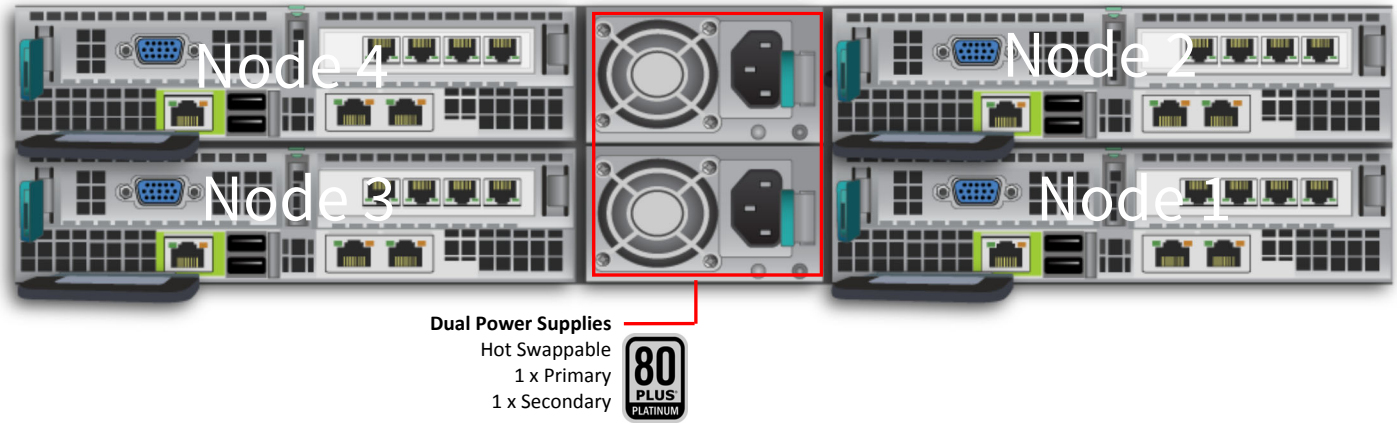
Operating temperature	50 to 95° F (10 to 35° C)
Storage temperature	-40 to 158° F (-40 to 70° C)
Storage humidity	50 to 90% non-condensing with a maximum wet bulb of 82.4°F (28° C) at temperatures from 25°C to 35 °C

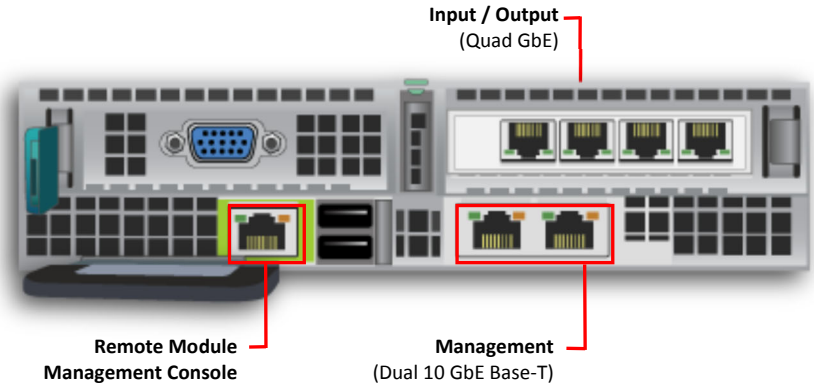
Compliance

Agency certifications	FCC Class A, CE, CB, VCCI, RoHS-compliant, WEEE-compliant*

** See G8 Hardware Installation Guide for complete list*

G8 2044/2054/2074 Back Panel





Specifications - G8 1024 /1044 / 1055 / 1074

Software Compatibility

Software compatibility	G8 1024: MediaKind Packaging v10.0 and above G8 1044: MediaKind Encoding On-Demand v10.1 and above G8 1074: MediaKind Encoding Live v7.1 and above G8 1055: MediaKind Encoding Live v11.0 and above

Memory

Size	96 GB (G8 1024/1044) or 192 GB (G8 1055/1074) memory capacity

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

	Management	Network Input	Network Output
G8 1055 IP/ 4 x HD SDI / 8 x HD SDI / Quad 3G SDI G8 1074 IP / Quad 3G SDI	2x 1/10GbE	2x 1/10GbE	2x 1/10GbE
G8 1055 16 x HD SDI	2x 1/10GbE	-	2x 1/10GbE
G8 1024 Dual 10 GB	2x 1/10GbE	2x 1/10GbE	2x 10GB SFP+
G8 1044 / 1055 Dual 10 GB / 1074 Dual 10 GB G8 1055 4 x HD SDI Dual 10 GB	2x 1/10GbE	2x 10 GB SFP+	2x 1/10GbE

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 or -48 to -60 VDC
Consumption (1024/1044/1074)	Idle: up to 315 W - Encoding: up to 595 W
Heat dissipation (1024/1044/1074)	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 or 750 W DC 80 PLUS Gold
MTBF	35316 Hrs

Environmental

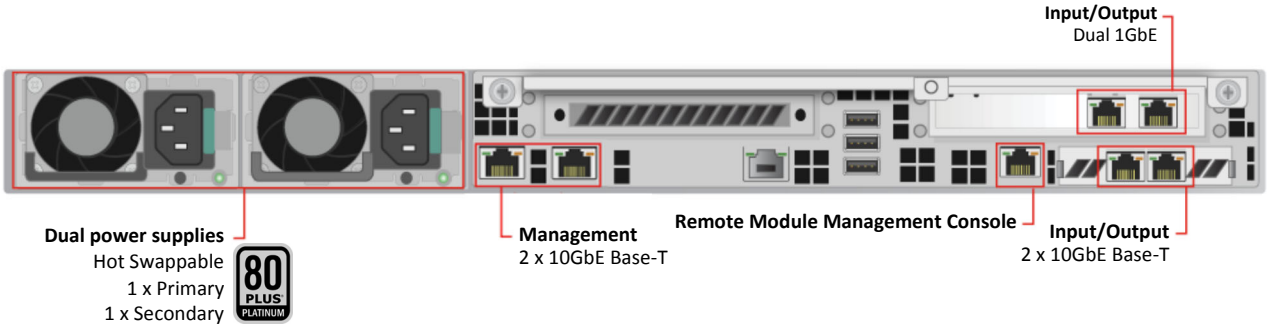
Operating temperature	50 to 95° F (10 to 35° C)
Storage temperature	-40 to 158° F (-40 to 70° C)
Storage humidity	50 to 90% non-condensing with a max. wet bulb of 82.4°F (28° C) at temperatures from 25°C to 35 °C

Compliance

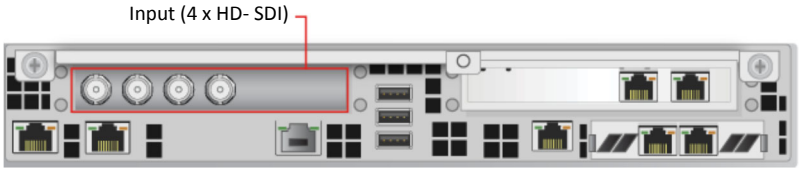
Agency certifications	FCC Class A, CE, CB, VCCI, RoHS-compliant, WEEE-compliant **

** It can be changed to meet the customer system requirements.*
*** See G8 Installation Guide for complete list.*

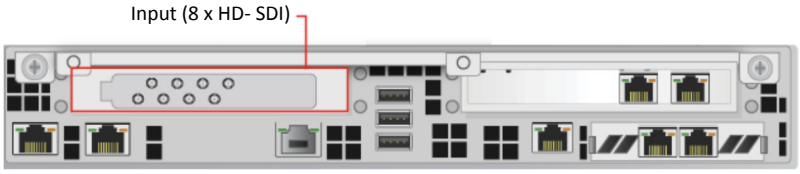
G8 1024/1044/1055/1074: IP Back Panel



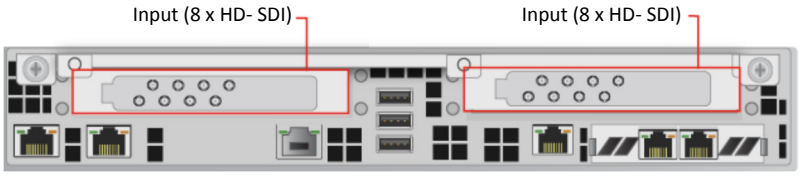
G8 1055: 4 x HD-SDI



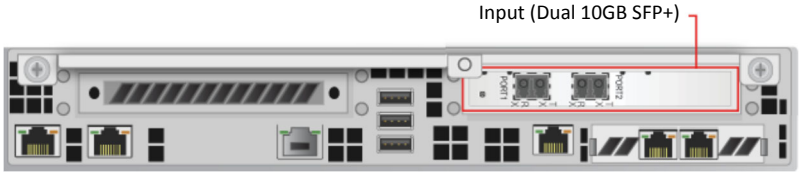
G8 1055: 8 x HD-SDI



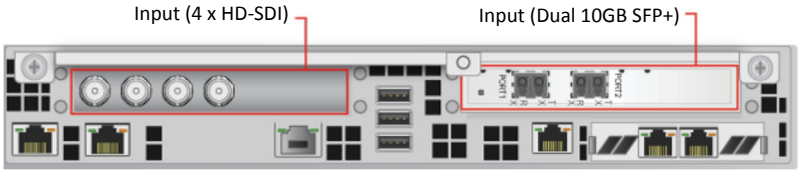
G8 1055: 16 x HD-SDI



G8 1024/1044/1055/1074: Dual 10GB SFP+



G8 1055: 4 x HD-SDI Dual 10GB SFP+



G8 1055/1074: 3G-SDI