

MediaKind G6 Series



High Performance Intel-based Video Processing

The MediaKind G6 platform provides outstanding performance and density for and delivery applications and is available in 1RU (1000 series) or 2RU (2000 series) form factors.

The full suite of MediaKind Encoding, Packaging and Management software is designed to run on the G6 appliances.

The MediaKind G6 platform uses the latest generation of Intel® Xeon® Haswell CPUs. Thanks to these processors, the G6 platforms have far more advanced processing power. For service providers, this advanced performance corresponds to a reduction in operating expenses. Compared to previous generation appliances, the G6 platforms have the ability to process 30% more channels and 30% more transcoding of VOD libraries at once. In other words, the MediaKind G6 reduces rack space requirements by almost 40% and power consumption by more than 30%.

The G6 1000 series is a compact 1RU chassis that offers flexible configuration options, with both IP and HD-SDI input support. With up to 16 HD-SDI interfaces per 1U chassis, the G6 platform is the high-density encoding solution for broadcast applications.

The G6 2000 series platform is designed for heavy processing workloads. For all IP-based headends, the G6 provides the densest compute capacity on the market.

Both series offer dual IP input/output management interfaces, IPMI support, as well as redundant power supplies. Combined with the resiliency capabilities of MediaKind's suite of software 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 Haswell 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 Supplies

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

Hot-swappable Processing Nodes

(G6 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 - MediaKind G6 2042 & 2052

Software Compatibility	MediaKind Encoding Live v4.00 and above MediaKind Encoding On-Demand v4.00 and above
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Memory

Size	64 GB RAM memory per node
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Input

IP Input / Output	4 x Gigabit Ethernet ports per node
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Management

Control Interface	2 x Gigabit Ethernet ports for Management, Data / DRM interfaces per node
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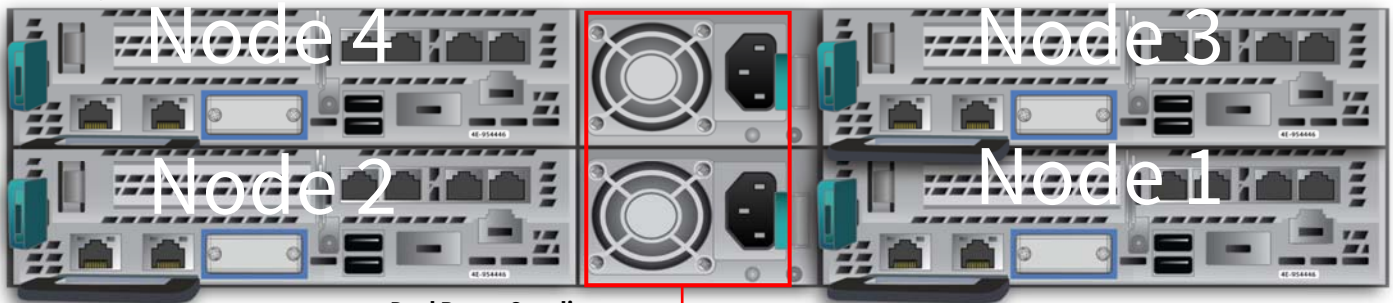
Physical and Power

Chassis Dimensions (H x W x D)	3.42" (86,87 mm) x 17.24" (438 mm) x 28.86" (733 mm)
Chassis Weight	Fully configured (2 PSU, 4 nodes) 65.50 lbs (30 kg)
Power	Input: 100-240 VAC auto-ranging Consumption: 398 W per node (1593 W total) Heat dissipation: 1057 Btu/hr per node (5439 Btu/hr total)
Power Supplies	Dual load-balancing hot-swappable
MTBF	67400 Hrs

Environmental

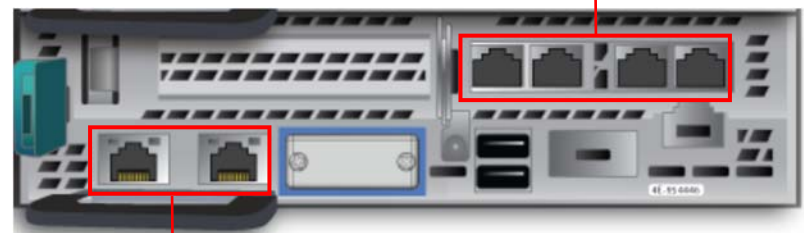
Operating Temperature	50 to 95° F (10 to 35° C)
Storage Temperature	- 40 to 158° F (-40 to 70° C)
Storage Humidity	50 to 90% non-condensing with a maximum wet bulb of 82.4°F (28° C)
Agency Certifications	FCC Class A, CE, cTUVus, CB, VCCI, KCC RoHS-compliant, WEEE-compliant

G6 2042 / 2052 Back Panel



Dual Power Supplies
Hot Swappable
1 x Primary
1 x Secondary

Network Interfaces
Quad Gb Ethernet



Network Interfaces
Dual Gb Ethernet

Node details

Specifications - MediaKind G6 1000



G6 1000 Series

Model	G6 1012	G6 1022	G6 1052
Software Compatibility	MFVP Management v5.01 and above	MFVP Packaging v4.01 and above	MFVP Encoding Live v4.00 and above

Memory

Size	32 GB RAM memory	32 GB RAM memory* 64 GB RAM memory**	64 GB RAM memory

* G6 1022 Standard Platform
** G6 1022 Advanced Platform

Input / Output

Model	G6 1012	G6 1022	G6 1052
IP Input / Output	N/A	5 Gigabit Ethernet ports* Dual 10 Gigabit Ethernet ports**	5 Gigabit Ethernet ports
SDI Input	N/A	N/A	Up to 16 SDI inputs

Management

Control interface	Gigabit Ethernet port for Management, Data / DRM interfaces
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Storage

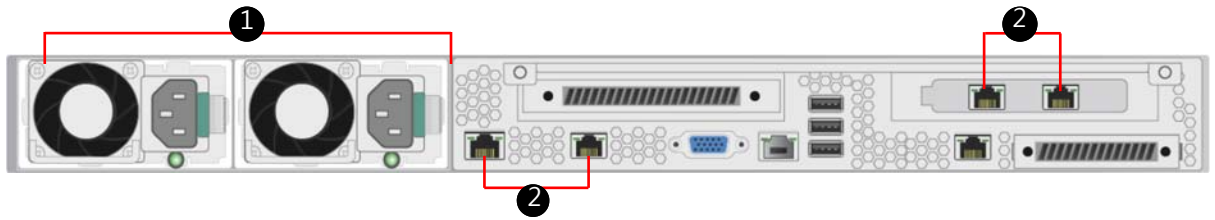
Internal Storage	N/A	SSD storage, up to 1TB storage (RAID-5)	N/A
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Physical and Power

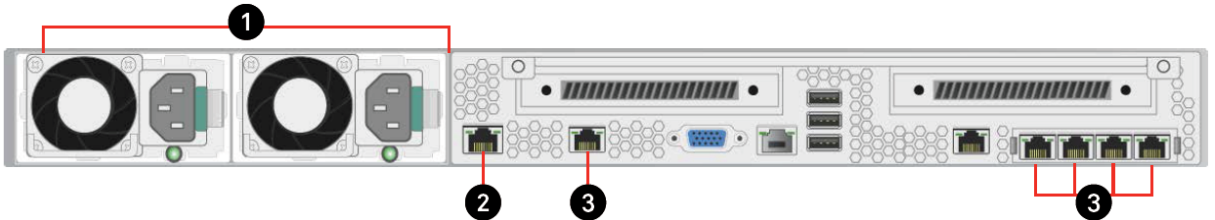
Chassis Dimensions (H x W x D)	1.75" (43 mm) x 16.93" (438 mm) x 27.95" (709 mm)		
Chassis Weight	44 lbs (20 kg)		
Power	Input: 100-240 VAC auto-ranging or -48 to -60 VDC Consumption: 176 W Max Heat dissipation: 600.9 Btu/hr Power supplies: dual load-balancing hot swappable MTBF: 63221 Hrs	Input: 100-240 VAC auto-ranging or -48 to -60 VDC Consumption: 392 W Max Heat dissipation: 1338 Btu/hr Power supplies: dual load-balancing hot swappable MTBF: 63221 Hrs	Input: 100-240 VAC auto-ranging or -48 to -60 VDC Consumption: 435 W Max Heat dissipation: 1485 Btu/hr Power supplies: dual load-balancing hot swappable MTBF: 63221 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 maximum wet bulb of 82.4°F (28° C)		
Agency Certifications	FCC Class A, CE, cTUVus, CB, VCCI, KCC RoHS-compliant, WEEE-compliant		

* G6 1022 Standard Platform
 ** G6 1022 Advanced Platform

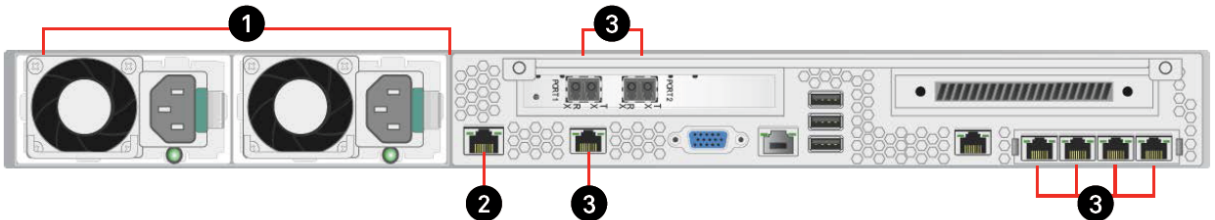
G6 1012 Standard Back Panel



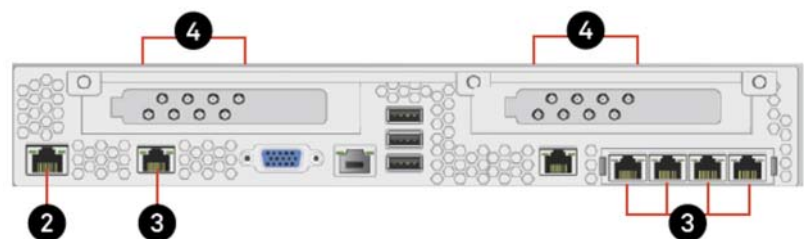
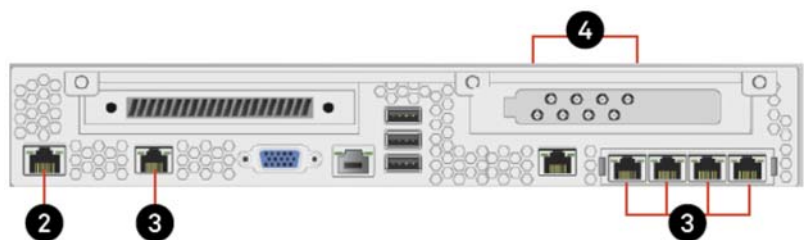
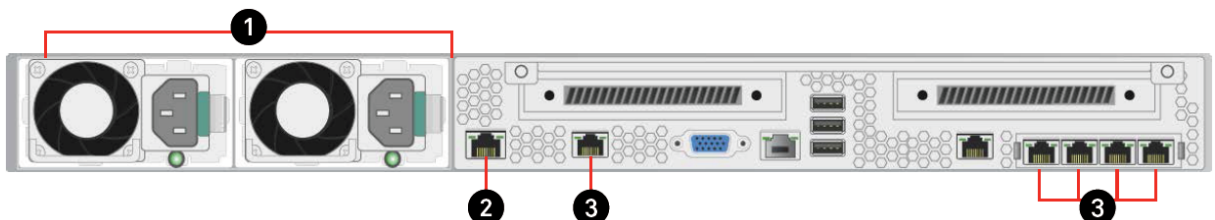
G6 1022 Standard Back Panel



G6 1022 Advanced Back Panel



G6 1052 Back Panel



- ❶ Power inputs (redundant hot-swappable powering)
- ❷ Network connectors, recommended for network connection (management and/or DRM)
- ❸ Network connectors, recommended for input and/or output
- ❹ Baseband SDI Inputs (optional)