MediaKind G7 Series

High Performance Intel-based Video Processing

The MediaKind G7 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 Live and On-Demand software is designed to run on the G7 appliances.

The MediaKind G7 platform uses the latest generation of Intel® Xeon® Broadwell CPUs. Thanks to these processors, the G7 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 G7 platforms have the ability to process 30% more channels and 30% more transcoding of VOD libraries at once. In other words, the MediaKind G7 reduces rack space requirements by almost 40% and power consumption by more than 20%.

The G7 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 or 8 3G-SDI interfaces per 1U chassis, the G7 platform is the high-density encoding solution for broadcast applications.

The G7 2000 series platform is designed for heavy processing workloads. For all IP-based headends, the G7 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 Broadwell 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 (G7 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 G7 2053

Software Compatibility	MediaKind Encoding Live v6.2 and above

Memory

Size	64 GB RAM memory per node

Input

IP Input / Output	4 x Gigabit Ethernet ports per node

Management

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

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	Fully configured (2 PSU, 4 nodes) 65.50 lbs (30 kg)
Power	Input: 100-240 VAC auto-ranging
Consumption	Idle: 106.25 W per node (425 W total) Encoding: 425 W per node (1700 W total)
Heat Dissipation	Idle: 362.75 Btu/hr per node (1451 Btu/hr total) Encoding: 1451 Btu/hr per node (5804 Btu/hr total)
Power Supplies	Dual load-balancing hot-swappable
MTBF	67400 Hrs

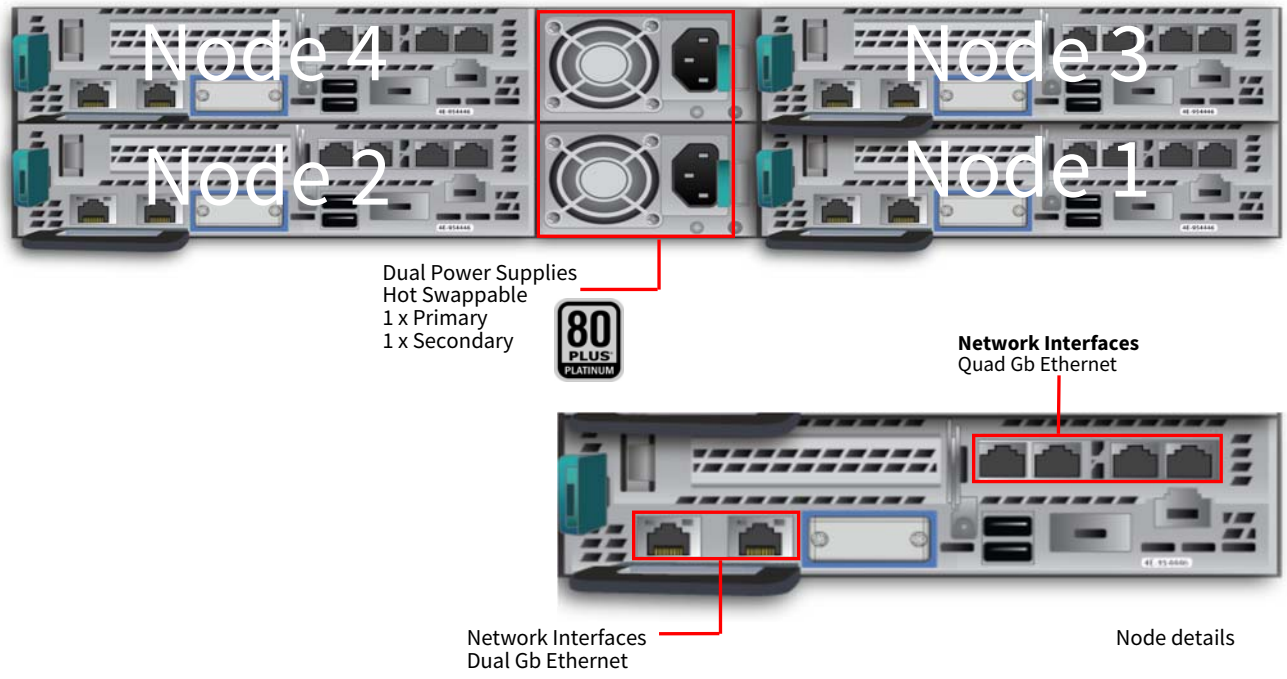
Environmental

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)

Compliance

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

G7 2053 Back Panel



Specifications - MediaKind G7 1053

Software Compatibility	MediaKind Encoding Live v6.2 and above

Memory

Size	64 GB RAM memory per node

Input/output

IP Input / Output	5 Gigabit Ethernet ports 2 x 10 Gigabit Ethernet ports (optional)*
SDI Input	4 3G-SDI or 8 HD-SDI inputs (optional) 8 3G-SDI or 16 HD-SDI inputs (optional)*

Management

Control Interface	Gigabit Ethernet ports for Management, Data / DRM interfaces

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	44 lbs (20 kg)
Power	Input: 100-240 VAC auto-ranging or -48 to -60 VDC
Consumption:	Idle: 253 W Encoding: 583 W
Heat Dissipation:	Idle: 863.8 Btu/hr Encoding: 1991 Btu/hr
Power Supplies:	Dual load-balancing hot-swappable
MTBF	63221 Hrs

* Contact us for availability.

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)

Compliance

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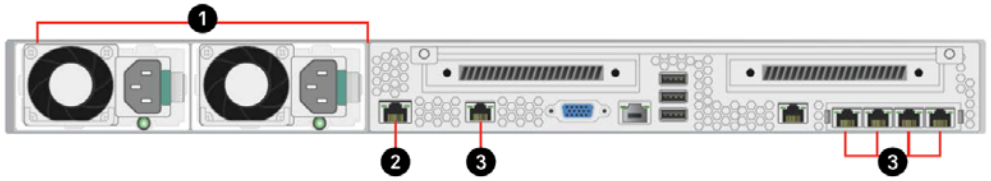
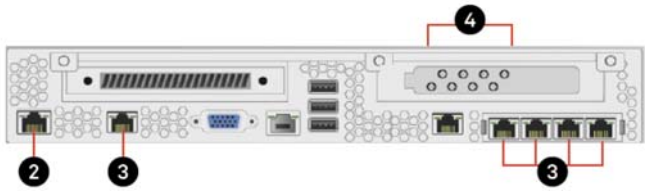
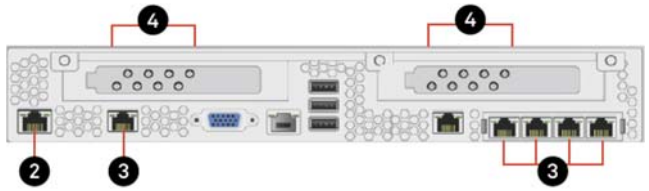
G7 1053 Back Panel options



8 x HD-SDI or 4 x 3G-SDI option



16 x HD-SDI or 8 x 3G-SDI option



2 x 10 Gbe option

2 x 10 Gbe + 8 x 3G-SDI option

1. Power inputs (redundant hot-swappable powering)
2. Network connectors, recommended for network connection (management)
3. Network connectors, recommended for input and/or output
4. Baseband SDI input connectors (optional)
5. 2 x 10 Gbe input connectors (optional)

Specifications - MediaKind G7 2043

Software Compatibility	MediaKind Encoding On-demand v5.1 and above

Memory

Size	64 GB RAM memory per node

Input

IP Input / Output	4 x Gigabit Ethernet ports per node

Management

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

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	Fully configured (2 PSU, 4 nodes) 65.50 lbs (30 kg)
Power	Input: 100-240 VAC auto-ranging
Consumption	Idle: 106.25 W per node (425 W total) Encoding: 425 W per node (1700 W total)
Heat Dissipation	Idle: 362.75 Btu/hr per node (1451 Btu/hr total) Encoding: 1451 Btu/hr per node (5804 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)
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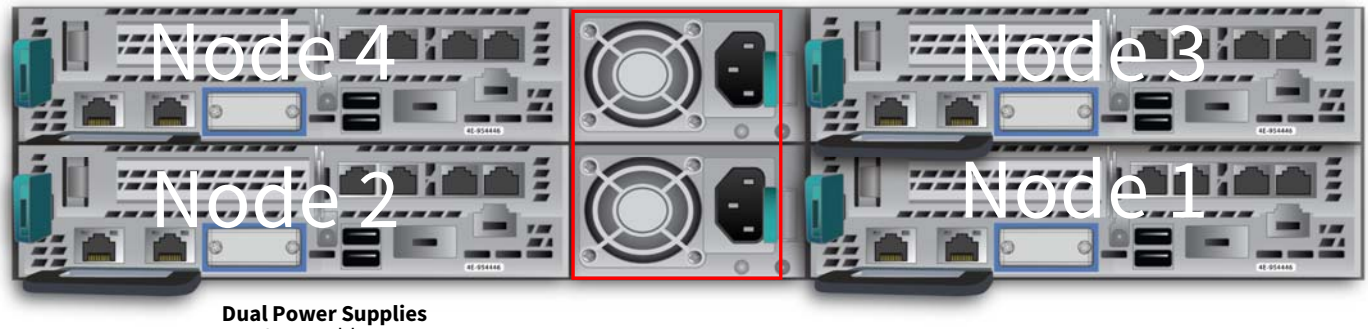
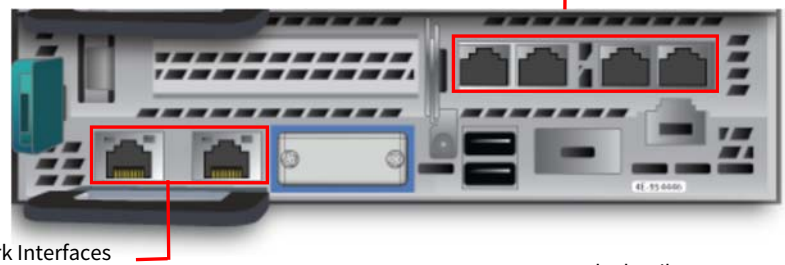
G7 2043 Back Panel



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 G7 1043

Software Compatibility	MediaKind Encoding On-demand v5.1 and above

Memory

Size	64 GB RAM memory per node

Input/output

IP Input / Output	4 Gigabit Ethernet ports 2 x 10 Gigabit Ethernet ports

Management

Control Interface	2 Gigabit Ethernet ports for Management, Data / DRM interfaces

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	44 lbs (20 kg)
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