

MediaKind Stream Processing G8 Server



Stream Processing Appliance

The MediaKind Stream Processing G8 1055 Server is a powerful stream processing platform. It is capable of handling up to 1 Gbit/s of data throughput.

The G8 1055 server provides:

- 2 x 10Gb Ethernet ports for control and monitoring
- 4 x 1Gb or 10Gb Ethernet ports for data ingress and egress
- Dual redundant AC power supplies
- Optional ASI I/O support*

MediaKind Stream Processing can provide:

- ASI** or IP (UDP or RTP) input and output of MPEG Transport Streams
- RTP re-ordering
- IGMP V3 redundancy

- Input bit-rate monitoring and CC error detection
- Full re-multiplexing support including real-time PSI regeneration, and dynamic rules-based pass-through of descriptors
- PID re-mapping
- SI/PSI generation/re-generation and insertion from external source
- Statistical multiplexing bit-rate allocation for MediaKind Encoding Live
- SMPTE 2022-1 FEC on input and output
- DVB-CSA V1, V2 scrambling
- AES-128 scrambling
- DVB-CSA V3*

*Contact MediaKind for availability

** hardware option

MediaKind Stream Processing

Input

Transport Stream Input	<p>UDP or RTP encapsulated MPEG transport stream</p> <p>Unicast or multicast (IGMP V2,V3)</p> <p>Source redundancy (active/active)</p> <p>SMPTE 2022-1 FEC</p> <p>Input bit-rate monitoring and CC error detection</p> <p>ASI Input (If optional ASI I/O card fitted)</p>
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Stream Processing

Multiplexing	<p>Full re-multiplexing support including real-time PSI regeneration, and dynamic rules-based pass-through of descriptors</p> <p>PID re-mapping</p> <p>Data component insertion</p> <p>SI/PSI generation, re-generation and insertion from external source</p>
Statistical Multiplex Controller	Statistical multiplexing bit-rate allocation for MediaKind Encoding Live
Scrambling	<p>DVB-CSA V1, V2 and AES-128 scrambling</p> <p>DVB-CSA V3 scrambling (contact MediaKind for availability)</p>

Output

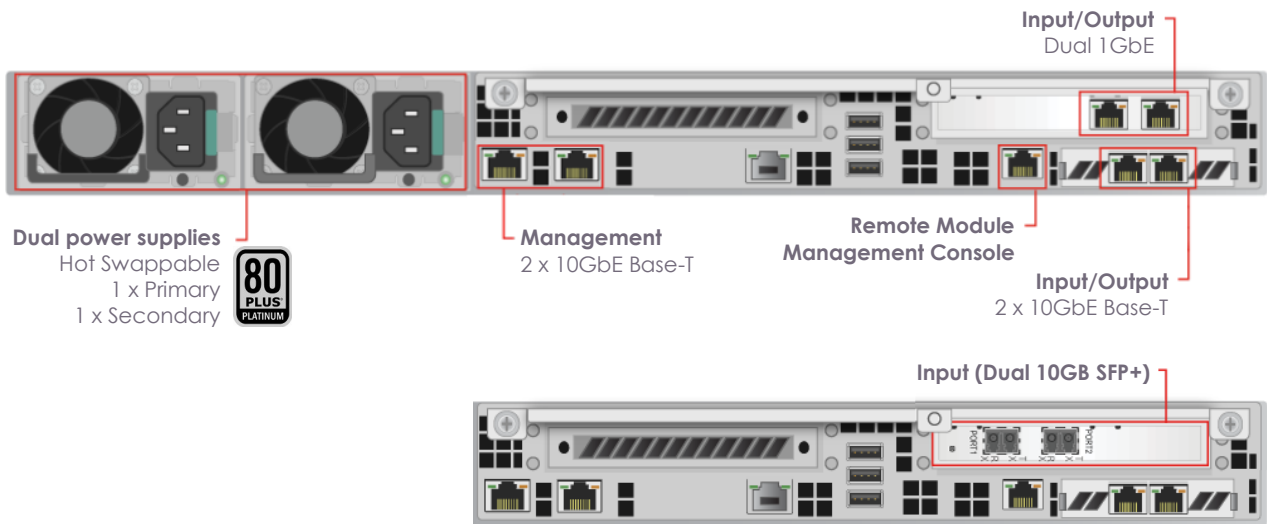
Transport Stream Output	<p>UDP or RTP encapsulated MPEG transport stream</p> <p>Unicast or multicast (IGMP V2, V3)</p> <p>Dual source redundancy (active/active or active/standby)</p> <p>SMPTE 2022-1 FEC</p> <p>ASI Output (If optional ASI I/O card fitted, 4 port or 8 port variants are available)</p>
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Scaling

Scaling examples	<p>Multiplexing only: TBA</p> <p>DVB-CSA V1, V2 scrambling: TBA</p> <p>AES-128 scrambling: TBA</p> <p><i>(Note : scaling calculator is available)</i></p>
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Licensing

Licensed per 1 Mbit/s of output	FAZ 101 0408/278 - MFSms Video Processing (1 per 1 Mbit/s of output data rate)
Licensed per scrambled service	FAZ 101 0408/354 - CA Per Service (Note: DVB-CSA V3 and AES-128 will require additional licenses)



Inputs/Outputs

Data Ingress / Egress	2 x 10 Gigabit RJ45 Ethernet ports
Control and monitoring / CAS connection	2 x 10GbE Base-T Ethernet ports
ASI (if ASI I/O card fitted)	4 port 4 ASI I/O option card (DIN 1.0/2.3 connectors) 8 port ASI I/O option card (DIN 1.0/2.3 connectors)

Physical and Power

Dimensions (W x D x H)	1.7" (43.2 mm) x 17.25" (439 mm) x 28" (712 mm)
Input Voltage	115-220 VAC auto-ranging or -48 to -60 VDC
Power Supplies	Dual load-balancing hot-swappable 1100 W AC 80 PLUS Platinum or 750 W DC 80 PLUS Gold
Cooling	Integrated fans
Chassis weight	29.3 lbs (13.3 kg)

Environmental Condition

Operating Temperature	50 to 95° F (10 to 35° C)
Storage Temperature	-40 to 158° F (-40 to 70° C)
Relative 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 **
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