

MediaKind T1 Series



The MediaKind T1 platform has been specifically designed to deal with today's media processing heavy workloads, providing both outstanding performance and a highly dense solution in a compact 2RU (2000 series) form factor.

High Performance Intel-based Video Processing

This latest platform offered by MediaKind utilizes the current generation of Intel® Xeon® Skylake CPUs. With these processors powering the platform, the T1 benefits from the latest technological advances.

In order to optimize the platform to its full potential MediaKind Encoding Live software has been specifically designed to be implemented on the T1 platform. When combining this new hardware platform with the industry leading media processing software it provides unparalleled results and drives Total Cost of Ownership (TCO) reductions even further.

Significantly reducing both rack space requirements and power consumption the T1 platform can process more channels at a lower cost when compared to other available platforms on the market today.

The T1 also offers dual IP input/output management interfaces, Intelligent Platform Management Interface (IPMI) support and fully redundant power supplies. When combining this inherent platform management with the resiliency capabilities of the MediaKind Management Controller, the results lead to even higher service uptimes, helping to ensure continual service delivery, which is crucial for reducing subscriber and consumer churn and maintaining revenues.

T1 provides the densest compute capacity on the market and naturally equates to a significant reduction in operating costs for all IP-based headends utilized by Service Providers, Broadcasters and Network Operators alike.

Platform Highlights

High Performance

- Latest generation of Intel Xeon E3 quad-core processors (2 per blade)
- Specifically designed to support advanced
- Up to nine hot-swappable processor modules

Control & System Level Management

- System-level monitoring for overall system, processing blade and power supply health status
- Front panel power button, status LED and Network Link/Activity LED for each blade
- Intelligent Platform Management Interface (IPMI) support

Efficient Power Supplies

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

Hot-swappable Processing Blades

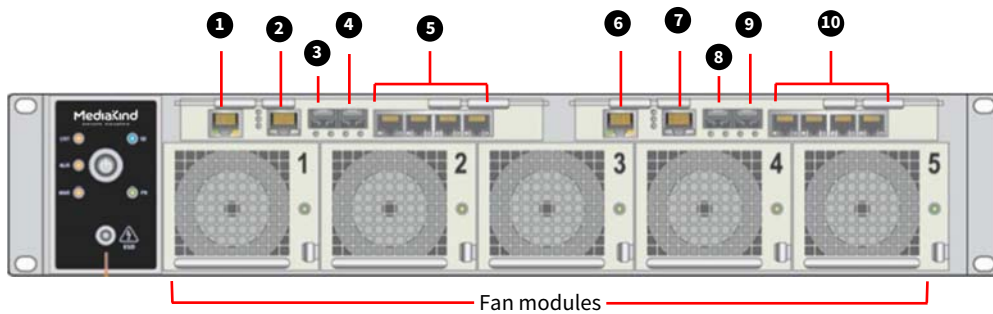
- 9 independent processing blades with IP interfaces
- Pluggable and cable-free carrier trays
- 5 managed dual fans per blade preventing single point of failure

Hot-swappable Switches

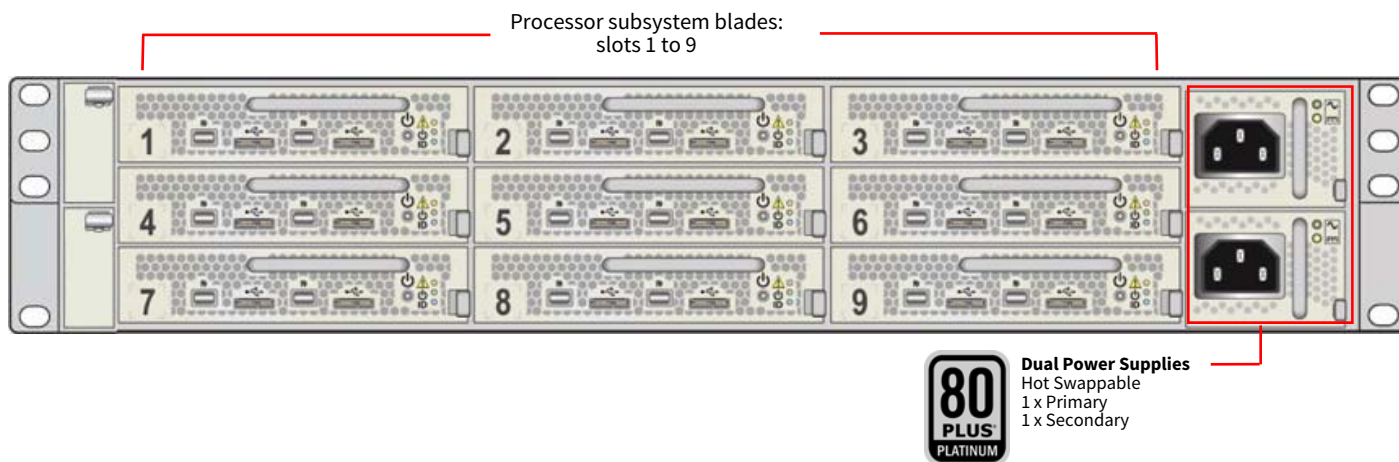
- 2 hot-swap network switches: Active-Active or Active-Standby
- High uplink capacity 4 x 10 GbE SFP+ and 8 x 1 GbE RJ-45 ports

T1 2064 Front Panel

- ① ⑥ Management 1GbE RJ-45 port
- ② ⑦ Serial Console RJ-45 port
- ③ ⑧ SFP+ stacking port
- ④ ⑨ 10 GbE SFP+ uplink port
- ⑤ ⑩ Quad GbE RJ-45 ports



T1 2064 Back Panel



Specifications

Software Compatibility	MediaKind Encoding Live v7.0 and above
-------------------------------	--

Memory

Size	64 GB RAM memory per blade (32 GB per CPU)
-------------	--

Input

IP Input / Output	Redundant 10GbE ports
--------------------------	-----------------------

Management

Control interface	2 x 10 GbE SFP+ 4 x 1 GbE RJ-45
--------------------------	------------------------------------

Physical and Power

Chassis Dimensions (H x W x D)	Body: 88.1 mm MAX [3.5 in] x 449 mm MAX [17.6 in] x 533,4 mm [21 in] Total depth with front handle (19 mm [0.75 in]) and rear power supply handles (27,8 mm [1.1in]): 580,2 mm [22.8 in] Overall width: front/mid mounting brackets included (2x 17,2 mm [0.7 in]): 483,4 mm MAX [19 in] Width between rack mounting points: 465.5 mm [18.3 in]
Chassis Weight	Fully configured (2 PSU, 9 blades, 2 switches): 65.50 lbs (30 kg)
Power	Input: 85-264 VAC (1500W) or 40-72 VDC (1100W)
Consumption	Encoding: 140 W per blade (1260 W total); 1465 W fully loaded
Heat dissipation (fully loaded)	Idle: 1108.95 BTU/h Encoding: 4930.54 BTU/h
Power supplies	Two hot-swappable power supply units (1500W AC or 1100W DC), 12 VDC output, 80 PLUS® silver or better efficiency
MTBF	176 291 h

Environmental

Operating temperature	-5°C to +55°C (23° F to 131° F)
Storage temperature	-40° C to +85° C (-40° F to 185° F)
Operating humidity	5% to 93%, non-condensing at 40°C
Storage humidity	5% to 93%, non-condensing at 40° C (104° F)

Compliance / Regulatory

Agency Certifications	<p>Meets the following environmental, safety, and EMC requirements:</p> <ul style="list-style-type: none"> • EN 300 019 • Telcordia GR-63 • Telcordia SR-3580 level 3 • Telcordia GR-1089 • EN 300 386 (meets) • IEC/EN/CSA/UL 60950-1
------------------------------	--