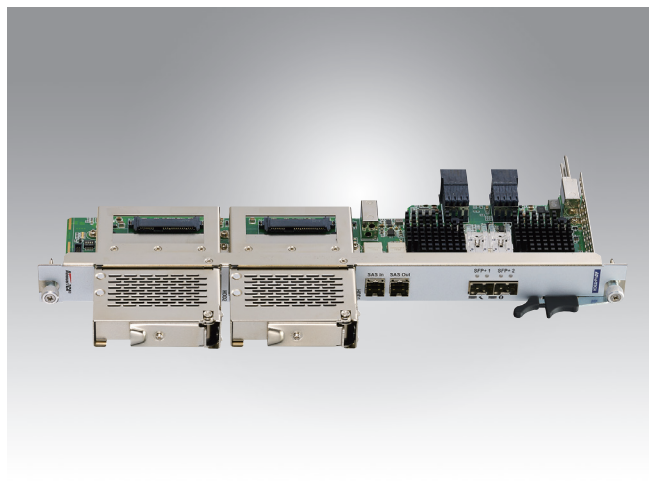# RTM-5107

AdvancedTCA® Rear Transition Module for MIC-5333 and MIC-5342

Features

- PICMG IRTM.0 compliant
- Supports two 2.5" SAS HDD / SATA SSD
- Supports two miniSAS HD connectors to external device & failover
- SAS interface speeds up to 12Gbps
- Supports two SFP+ ports

Introduction

The RTM-5107 is a single slot (6HP) ATCA rear transition module of Advantech ATCA CPU blades.

An Avago SAS3008 controller provides two SAS/SATA ports to two 2.5" Direct Attached Storage drives installed in the RTM-5107 storage trays and two miniSAS HD ports. One miniSAS HD port can be connected to external SAS devices (up to 4 devices). The other miniSAS HD port is used in a failover configuration, so two sets of compute blades and two RTM-5107 modules can be connected in a crossover mode to provide fail safe storage if used in conjunction with SAS disks supporting dual host ports. All internal and external SAS ports support 12Gbps lane speed.

For rear LAN access, an Intel® Ethernet Controller X710-BM2 on the RTM-5107 provides two SFP+ ports on the RTM panel for 10GbE/1GbE connections.

Specifications

Rear Panel Interface	Ethernet	Intel® Ethernet Controller X710-BM2 supporting two SFP/SFP+ ports	
	Storage	Two 2.5" SAS/SATA HDD/SSD bays. Support SAS3008 HW RAID 0/1, RAID 1 support Disk Hot-swap auto-recovery Two miniSAS HD connectors to external device & failover	
IPMI	MMC Controller	NXP LPC1756	
	IPMI	Advantech IPMI core, compliant with IRTM.0 and IPMI 1.5/2.0	
Zone 3	RTM	Advantech common RTM interface Type II	
	Interface	Two PCIe x8, IPMB-L, MMC management interface	
Power Requirement	Max Power Consumption	14.6W without SAS hard drives (estimated) 24W with two SAS hard drives (estimated)	
Physical Characteristics	Dimensions (W x D)	6 HP, 322.25 x 94.00 mm (PCB size) Note: 322.25 x 123.92 mm (The HDD's cages extend beyond the rear panel)	
	Weight	1.2 kg (with two SAS hard drivers) 0.72 kg (without SAS hard drivers)	
Environment		Operating	Non-operating
	Temperature	0 ~ 55° C (32 ~ 131° F)	- 40 ~ 70° C (-40 ~ 158° F)
	Humidity	5 to 93%@40°C (non condensing)	95% @ 40° C (non-condensing)
	Shock	4Grms, each axis	
	Vibration	5 - 200 Hz, 0.2G, each axis	5 Hz to 20 Hz @ 1 m2/s3 (0.01 g2/Hz) (flat) 20 Hz to 200 Hz @ -3 dB/oct (slope down)
Compliance	Environment	ETSI EN300019-2-1 Class1.2, EN300019-2-2 Class 2.3, ETSI EN300019-2-3 Class 3.1E	
	PICMG	3.0 R3.0, HPM.1, IRTM.0	
	Safety	CE Mark (EN60950-2005), UL60950-1/CSAC22.2	
	EMC	FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386) Designed to meet GR1089-CORE	

Ordering Information

Part Number	Description
RTM-5107S00E	Rear Transition Module compatible with MIC-5333 and MIC-5342* ATCA compute blades

*Note: Two SFP+ port is not supported with MIC-5342.

Please contact Advantech for further information about current and future ATCA product offerings.

J31, J33 Zone3 connectors

Two miniSAS HD connectors

Two SFP+ port

Two 2.5" SAS/SATA HDD/ SSD bays

ADVANTECH ATCA Blades & Integrated Systems

All product specifications are subject to change without notice.
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