RTM-5108

AdvancedTCA® Rear Transition Module for MIC-5345

Preliminary

Features

Polaris Tested
PNCT-ATCA-300

- PICMG IRTM.0 compliant
- Supports two 2.5" SAS/SATA HDD/SSD
- Supports two miniSAS HD connectors
- SAS interface speeds up to 12Gbps
- Supports two SFP28 ports
- Fully managed, hot swappable RTM

RoHS COMPLIANT 2002/95/EC **AdvancedTCA®**

Introduction

The RTM-5108 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-5108 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-5108 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 Mellanox ConnectX-4 LX on the RTM-5108 provides two SFP28 ports on the RTM panel for 25GbE connections.

Specifications

		Operating	Non-operating
Rear Panel Interface	Ethernet	Mellanox ConnectX-4 LX supporting two SFP28 ports	
	Storage	Two 2.5" SAS/SATA HDD/SSD bays. Support SAS3008 HW RAID 0/1 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	34W with two SAS hard drives	
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	0.985 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	Designed to meet GR1089-CORE, FCC47 CFR Part15, Class A, CE Mark (EN55022/EN55024/EN300386)	

Ordering Information

Part Number	Description
RTM-5108SA1-S1E	Rear Transition Module compatible with MIC-5345 ATCA compute blades

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

J31, J34
Zone3 connectors

Two miniSAS HD connectors

Two SFP28 ports

Two 2.5" SAS/SATA HDDs/SSDs