



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-aTCA-8214

Product Data Sheet

Overview:

The VRM-aTCA-8214 is a 12U 14-slot AdvancedTCA® shelf. It supports a 14-slot dual dual-star topology fabric interface and standard Rear Transition Module slots. Dual shelf managers (ShMC) based on Pigeon Point Systems SHMM-500 are designed to work in Active/Standby mode for redundancy. Using the dual-bussed IPMB and I2C buses in system, the ShMC can monitor and control the AdvancedTCA® blades and hot-swappable fan trays according to temperature sensor readings. Dual -48 V DC power entry modules filter and monitor up to 3000 watts maximum power requirement.



Features:

- 19" Rackmount, 12U height, 383.1 mm depth
- 14-slot dual dual-star topology fabric interface
- 14-slot standard Rear Transition Module
- Dual-bussed IPMB
- Hot-swappable IPMC controlled fan trays
- Dual PPS SHMM-500 based shelf manager
- Dual -48 V DC Power Entry Modules

Ordering:

VRM-aTCA-8214: 12U 14-slot Rackmount AdvancedTCA® system, Dual-Dual Star Fabric Topology, Dual Buses IPMI

VRM-aTCA-8214A: 12U 14-slot Rackmount AdvancedTCA® system with single ShMC, Dual-Dual Star Fabric Topology, Dual Bussed IPMI

VRM-aTCA-8214AA: 12U 14-slot Rackmount AdvancedTCA® system with dual ShMCs, Dual-Dual Star Fabric Topology, Dual Bussed IPMI

Mechanical Specification: 19" Rackmount, 12U height, 383.1 mm depth Fits inside a 600 mm deep cabinet (include cable bend area) Supports 14-slot standard AdvancedTCA blades and RTMs
Shelf Manager: Dual hot swappable Pigeon Point Systems SHMM-500 based ShMCs

Active/Standby mode for high availability applications
Supports multiple management interfaces including Remote Management Control Protocol (RMCP)
Remote Procedure Call (RPC)
Simple Network Management Protocol (SNMP)
Command Line Interface (CLI)
Dual 10/100BASE-T Fast Ethernet ports and one serial console

Cooling System: Hot-swappable IPMC controlled fan trays
Easy to remove/replace air filter

Backplane: Dual-star topology base interface
Dual dual-star topology fabric interface
Update channels for active/standby synchronization
Dual-bussed IPMB

Power Filtering: Dual-redundant -48 V DC power entry modules
3000 watt maximum

Weight: 33 kg

Operating Temp.: 0°C to 55°C

Storage Temp.: -20°C to 80°C

Humidity: 5% to 95%, non-condensed

Dimensions: 531.9 x 450 x 383.1 mm (W x H x D)

Compliance: AdvancedTCA® Specification PICMG® 3.0 R2.0 ECN001

Target Certification: FCC, CE, CUL, NEBS Level 3 (design)



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Dimensions:

