

MaXum460

14-Slot

14U DC / 15U-16U AC

AdvancedTCA™ Shelf

Key Features

- PICMG 3.1 R2.0 and IPMI v1.5/2.0 compliant shelf
- Up to 400W per slot
- Redundant fan trays for optimal high-velocity Pull cooling
- Shelf manager based on Pigeon Point ShMM Sentry700
- 40 Gbps backplane
- Ethernet signaling environment
- Fabric interface with Dual-Dual star interconnect

AC versions:

- Redundant, hot swappable and IPMI-controlled power supplies
- Support for N+1 and N+N redundancy
- Up to eight 2500W PSUs in up to two 1U units



Specifications

Backplane	
Bus Architecture	Supports up to 14 third-party ATCA-compliant front boards
Base Interface	Dual Star with support for 10/100/1000 BASE-T Ethernet
Fabric Interface	Dual-Dual Star fabric connectivity optimized for performance at 40Gbps per channel
IPMB Support	Dual redundant bussed IPMB support
DC Power	
DC Input	-48 / -60 VDC; five feeds per PEM; up to 50Amp per feed
Redundancy	Two redundant PEM modules, each capable of supplying 100% of shelf's power
Over-current Protection	Five 50Amp circuit breakers on each PEM, one per segment
EMC Filtering	PEMs provide common mode filtering for conducted and emitted interruptions
AC Power	
Power supplies	Redundant, hot swappable and IPMI-controlled power supplies
Power configuration	Up to 2x 1U drawers, each with: Up to 4 units of 2500W @208-220VAC / 1500W @110VAC or Up to 5 units of 1600W @208-220VAC / 1200W @110VAC
Redundancy	N+1: loss of one PSU doesn't interrupt the shelf operation N+N: loss of one PSU or AC supply blackout don't interrupt the shelf operation
Cooling	
Cooling topology	Pull, front bottom to back top cooling
Fans	Nine fans for optimal cooling
Redundancy	N+1: any one fan can fail with no service degradation
Fan Speed	Variable speed under shelf management; soft rotation start
Shelf Management	
Shelf Manager	Two front accessible, redundant, hot-swappable IPMI Shelf Managers based on Pigeon Point ShMM Sentry700
IPMI Peripherals	Shelf EEPROM, Fan Tray, PEM, Front panel
Protocol Support	Multiple management interfaces supported: RMCP, SNMP, CLI and OpenHPI
Interface	10/100 Base-T Ethernet
Software Upgrades	Software version is remotely upgradable
Display	LEDs to indicate chassis status, fans status, Telco alarm and user-defined status
Accessibility	
Front	Shelf managers, fan trays, air filter, cable holder, Front panel, blades
Rear	PEMs, RTMs, cable management
Telco Alarm	
Electrical/Mechanical	Dual redundant Alarm Modules, front accessible via micro D- type connector
Alarm I/O Interfaces	Supports 4 outputs (Major, Minor, Critical, Power), 2 inputs (Major & Minor) and alarm Cutoff switch. Alarm relays with a maximum rating of 60VDC/1A or 30VAC

Regulatory	
Safety	UL/EN/IEC60950-1 certified with all country deviations
EMC	FCC part 15 Class A compliant
Environment	Designed to be compatible with NEBS level-3
Acoustics	According to NEBS GR63 issue 3
Physical	
Number of slots	14 8Ux280mm front blades & 14 8Ux70mm RTMs
Dimensions	24" (14U) H x 17.67" (19" rack mount) W x 15.18" D – including handles & cable holders
Weight	37Kg (81 lbs) – DC version
Environmental	
Temperature:	
▪ Operating	5°C to 40°C (41°F to 104°F)
▪ Short-term	-5°C to 55°C (23°F to 122°F)
▪ Short-term with fan failure	-5°C to 40°C (23°F to 104°F)
Storage Temperature	-40° to +70°C
Humidity	5% to 95%, non-condensed