



6 Slot AdvancedTCA™ 6U AC/DC Chassis



Key Features

- 19" rackmount.
- Both AC and DC configuration for maximum flexibility.
- PICMG 3.1 R1.0 (R2.0 TBD), and IPMI v 1.5/2.0 compliant shelf.
- 300W per slot using push-pull cooling
- Two powerful fan trays, each contains 10 high performance fans
- Multiple shelf management options:
 - Fully featured: Slim, high performance based on Pigeon Point™ ShMM Sentry 500.
 - Fan control board – Cost effective solution to control the fan speed based on temperature sensor measurements.
- AC features Asis' three propriety redundant and hot swappable power supplies of 1500W each supporting IPMI
- DC features two redundant and hot swappable -48 VDC PEMs.
- 40 and 10 Gbps backplane speed.
 - Fabric interface with Dual-star, 3x replicated mesh interconnect.
 - Base interface Dual-star Ethernet signaling environment.
- Optional cable management tray can be fitted to both side-mounting flanges.
- Exceeds MTBF and MTTR ATCA standard requirements.
- "NEBS Level 3 ready" integrated system.
- RoHS compliant.
- CE, TUV and CSA certified.
- FCC and CISPR Compliant

AdvancedTCA™

Asis 6-Slot AdvancedTCA™ AC/DC Shelf exceeds

Telco market requirements for reliability and availability.

Over ten years experience in the implementation of the ATCA standards and ever improving backplane design, thermal management and system engineering capabilities went into the design of the 6-Slot ATCA Shelf. We ensure consistent quality with our world class manufacturing at ISO9000 certified facilities.

Fully redundant system featuring dual hot-swappable fan trays, dual hot-swappable shelf managers, three 1500W AC power supplies, or two DC Power Entry Modules (PEMs).

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6 Slot AdvancedTCA™

6U AC/DC Chassis

Specifications

Backplane

Bus Architecture	Supports up to six 3rd-party ATCA compliant front boards - dual star, triple replicated mesh
Signal bandwidth rating	Supports over 10Gbps per differential pair; 40Gbps per channel.
Base Interface	Dual Star, with support 10/100/1000 BASE-T Ethernet; base hub slots are located in logical slots 1 & 2, base channel 1 is allocated to ShMC.
Fabric Interface	Dual star, triple replicated mesh fabric connectivity optimized for performance at 40Gbps.
Node Slots	Four logical slots 3-6 in Dual star, or 6 node slots in full mesh configuration.
Hub Slots	Two logical slots 1&2 (in Dual star configuration).
Update Channels	Logical slot 1 to logical slot 2 and logical slot 3 to logical slot 4 and logical slot 5 to logical slot 6.
IPMB support	Dual redundant, full bussed IPMB support.

Power

DC Input (Nominal)	-48 VDC/-60 VDC; one feed per PEM (A or B), designed to carry 50 Amp.
Over Current Protection	50 Amp circuit breaker on PEMs.
Redundancy	Dual redundant PEM modules, both of which are capable of supplying 100% of shelf power.
EMC Filtering	Dual redundant EMC filtered power feeds; PEMs provide common mode and differential mode filtering for conducted emissions.
AC Version Power Supply	Three redundant, front accessible, self cooled, hot-swappable, integral 1500W power supplies.

Cooling

Cooling Mechanism	Two front accessible, hot pluggable fan trays each with ten axial fans for front and RTM slots.
Redundancy	Two hot swappable fan trays with 15 speed levels.
Fan speed	Variable speed under shelf manager control or fan control board.
Cooling capacity	300W per slot.
Air filter	Front accessible, washable, field replaceable NEBS GR63 compatible air filter.

Shelf Management

Shelf Manager	Two front accessible, redundant, hot swappable Shelf Manager based on Pigeon Point technology ShMM Sentry 500.
Managed IPMI Peripherals	Air filter, EEPROM, AC Power supply, Fan trays, PEM
Protocol support	Multiple management interfaces: RMCP, RPC, SNMP, Web and serial interface.
Ethernet	10/100 Base-T Ethernet controller.
HPI	Compliant, optional SW module for providing access to the hardware platform interface (HPI) level.
Software upgrades	The shelf managers software version is field and remotely upgradable.
Telco Alarm	Alarm relays with a maximum rating of 60VDC/1A, or 30VAC.
LED alarm	Nine LEDs to indicate Critical, Major, Minor Alarms, Power status, Telco alarm, and user interface.
IPM sensor entries	Fan speed, temperatures, voltage, presence

Accessibility

Front	Shelf manager card, Fan Tray, Front ATCA boards, Air Filter Tray, Power Supplies.
Rear	PEMs, RTMs.

Alarm I/O

Electrical/Mechanical	Dual redundant Alarm I/O modules front accessible via micro D type 15 pin connector.
I/O interfaces	Supports four outputs (Major, Minor, Critical, Power) and two inputs (Major & Minor Reset).

Regulatory

Safety	CE, TUV and CSA Certified
EMC	CE & FCC part 15 Compliant.
Environment	Designed to be compatible with NEBS level-3 and ETSI.

Physical

Number of Slots	6 slot 8Ux280mm, 6HP (30mm) Front blades; 6 slot 8Ux70mm, 6HP (30mm) RTMs.
Dimensions	266.7mm (10.5") 6U H x 448mm (17.637") (19" rack mount) W x 385.8mm (15.1") Depth- not including handles & cable holders.
EMI	EMI gaskets and hardware spacing.
Weight	17-18 kg.
Acoustics	According to NEBS GR63.
Temperature Humidity:	5% to 95%, non-condensed.
Storage Temperature:	-40° to +70° C.
Operating Temperature:	-5° to +55° C.
Other	Front and rear ESD jack. Front rack flanges- front, rear, middle configuration options. Optional Front cable management tray.