



14 Slot AdvancedTCA™ DC 14U/AC 15U 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
- Three powerful fan trays, each contains two high performance fans
- Shelf manager options based on Pigeon Point ShMM Sentry 500.
- AC features Asis' five propriety redundant and hot swappable power supplies of 1500W each supporting IPMI
- DC features two redundant and hot swappable -48- -60 VDC PEMs.
- 40 Gbps backplane speed.
 - Fabric interface with Dual-star or Dual Dual-star interconnect.
 - Base interface Dual-star Ethernet signaling environment.
- Cable management trays fitted Front top and bottom.
- Exceeds MTBF and MTTR ATCA standard requirements.
- "NEBS Level 3 ready" integrated system.
- RoHS compliant.
- CE, UL, TUV and CSA certified.
- FCC and CISPR compliant.



AdvancedTCA™

Asis 14-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 14-Slot ATCA Shelf. We ensure consistent quality with our world class manufacturing at ISO9000 certified facilities.

Fully redundant system featuring three hot-swappable fan trays, dual hot-swappable shelf managers, up to five 1600W AC power supplies, or two DC Power Entry Modules (PEMs).

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Specifications

Backplane

Bus Architecture	Supports up to 14 third-party ATCA compliant front boards, Dual Star and Dual Dual Star.
Base Interface	Dual Star with support for 10/100/1000 BASE-T Ethernet; base hub slots are located in logical slots 7 & 8, base channel 1 is allocated to ShMC.
Fabric Interface	Dual Star and Dual Dual Star fabric connectivity optimized for performance at 40Gbps per channel.
Node Slots	Twelve slots 1-6, 9-14 in Dual-star / Ten slots 1-5, 10-14 in Dual Dual-star.
Hub Slots	Two logical slots 7 & 8 in Dual-star / four slots 6-9 in Dual Dual-star.
Update Channels	Physical slot 1-3, 2-4, 5-9, 6-10, 7-8, 11-13, 12-14
IPMB Support	Dual redundant, full busbed IPMB support.

DC Power

DC Input (Nominal)	-48 VDC/ -60 VDC; two feeds per PEM, designed to carry up to 125Amp.
Redundancy	Dual redundant PEM modules, each capable of supplying 100% of shelf's power
Over Current Protection	Four 50Amp circuit breakers on each PEM, one per feed.
EMC Filtering	Dual redundant EMC filtered power feeds; PEMS provide common mode and differential mode filtering for conducted missions.

AC Power

AC Version Power Supply	Five front accessible, redundant, self-cooled, hot swappable, integral 1600W power supplies.
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Cooling

Cooling Mechanism	Front bottom to Back top cooling.
Number of Fans	Three hot pluggable fan trays, two axial fans per tray, for front and RTM slots.
Redundancy	N+1 (i.e., any one fan can fail with no service degradation).
Fan Speed	Variable speed under shelf management control.
Air Filter	Front accessible, washable, field replaceable NEBS GR63 compatible air filter or other.

Shelf Management

Shelf Manager	Two front accessible, redundant, hot-swappable IPMI Shelf Managers based on Pigeon Point technology ShMM Sentry 500.
Managed IPMI Peripherals	Air filter, EEPROM, AC power supply, Fan Tray, PEM
Protocol Support	Multiple management interfaces supported: RMCP, RPC, SNMP, CLI, Web and Serial Interface.
HPI	Optional SW module for providing access to the hardware platform.
Ethernet	10/100 Base-T Ethernet Controller.
Software Upgrades	The shelf managers software version is field and remotely upgradable.
LED Alarm panel	Nine LEDs to indicate Critical, Major, Minor Alarms, Power status, Telco alarm, and user interface.
Telco Alarm	Alarm relays with a maximum rating of 60VDC/1A, or 30VAC.
IPM Sensor Entries	Fan speed, temperatures, voltage presence
Redundancy	Dual redundancy shelf manager.

Accessibility

Front	Shelf management card, fan tray, front boards, air filter tray, front cable holder, AC power supplies.
Rear	PEMs, RTMs, fan trays, rear cable management.

Alarm I/O

Electrical/Mechanical	Dual redundant Alarm I/O Modules, front accessible via micro D- type 15 pin connector.
Alarm I/O Interfaces	Supports 4 outputs (Major, Minor, Critical, Power) and 2 inputs (Major & Minor Reset).

Regulatory

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

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" Depth- including handles & cable holders +1U for AC version.
EMI	EMI gasketing and hardware.
Weight Empty Shelf:	21.5 Kg (47.4 lbs) (Shelf, backplane, air filter, and cable management only)
AC 15U (14U+1U) configuration:	42.5 Kg (93.7 lbs) (Including 5 PS units)
DC configuration:	34.0 Kg (75.0 lbs) (Including 2 PEM units)
Acoustics	According to NEBS GR63 issue 3.
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 cable management.