



Features

- 19" Rackmount, 5U height, 15.3" depth
- 5-slot full mesh topology Fabric Interface
- 5 standard Rear Transition Module slots
- Dual-bussed IPMB
- Dual-hot-swappable I²C controlled fan trays
- Two shelf management controller slots
- Dual -48 V DC Power Entry Modules



Specifications

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|--------------------------|---|
| Mechanical Specification | 19" Rackmount, 5U height, 15.3" depth Fits inside a 600 mm deep cabinet (include cable bend area) Supports 5-slots standard AdvancedTCA® blades and RTMs |
| Shelf Manager | Dual-hot-swappable Pigeon Point Systems ShMM-500 based ShMCs (aCMM-2000) Active/Standby mode for high availability applications Supports multiple management interfaces: - Remote Management Control Protocol (RMCP) - Remote Procedure Call (RPC) - Simple Network Management Protocol (SNMP) - Command Line Interface (CLI) - Web-based interface - Dual-10/100BASE-T Fast Ethernet ports and one serial console for access |
| Cooling System | Dual-hot-swappable I ² C controlled fan trays Right-to-left transverse air flow, push-pull design Easily removable replaceable air filter |
| Backplane | Dual-star topology Base Interface Full mesh topology Fabric Interface Update channels for active/standby synchronization, slot 1-2, slot 3-4 Dual-bussed IPMB |
| Power Input | -40 V DC to -72 V DC Nominal -48 V DC Dual redundant power entry modules Each carries up to 1200 W (A or B) |
| Weight | 8 kg/17.6 lbs |

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|-----------------------|---|
| Operating Temp. | 0°C to 55°C (dependent on system configuration) |
| Storage Temp. | -20°C to 80°C |
| Humidity | 5% to 95%, non-condensing |
| Dimensions | 440 x 221.8 x 387.4 mm (W x H x D) |
| Compliance | AdvancedTCA® Specification PICMG® 3.0 R2.0 ECN001 |
| Target Certifications | FCC, CE, CUL, NEBS Level 3 (design) |

Ordering Information

Shelves

| Model Number | Description/Configuration |
|--------------|---|
| aTCA-8505 | 5U 5-slot Rackmount AdvancedTCA® shelf |
| aTCA-8505A | 5U 5-slot Rackmount AdvancedTCA® shelf with single ShMC |
| aTCA-8505AA | 5U 5-slot Rackmount AdvancedTCA® system with dual ShMCs |

Shelf Manager (ShMC) – (optional)

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|-----------|---|
| aCMM-2000 | AdvancedTCA® Shelf Management Controller (ShMC) for aTCA-8505 |
|-----------|---|

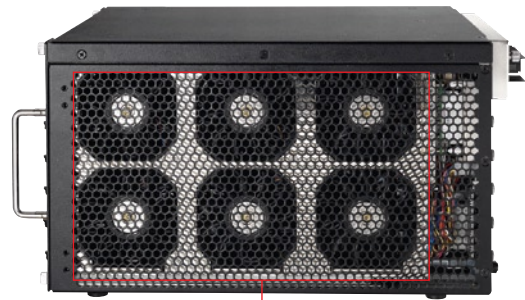
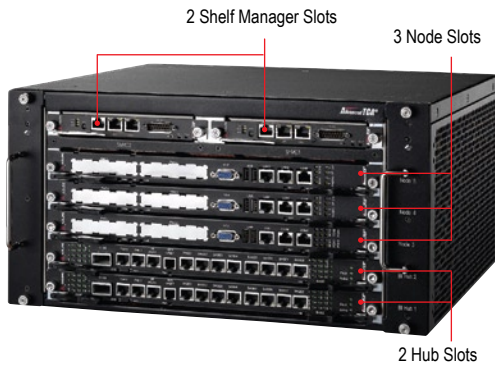
Power Supply (optional)

| | |
|--------------|--|
| aPRS-1120 | 19" Rackmount Power Rack with one 1200 W Power Supply Unit |
| aPS-91120/48 | 1200 W 48V Single Output Power Supply Unit |

Mechanical Layout



Rear View



Hot Swappable Cooling Fan Tray for Air Intake

Dimensions

Units: mm

