ATCA-S110-600GB

AdvancedTCA Storage Blade

Embedded Computing for Business-Critical Continuity™

PRELIMINARY DATA SHEET

The ATCA-S110 AdvancedTCA® storage blade allows SCSI-based hard disk drive (HDD) expansion for AdvancedTCA systems.

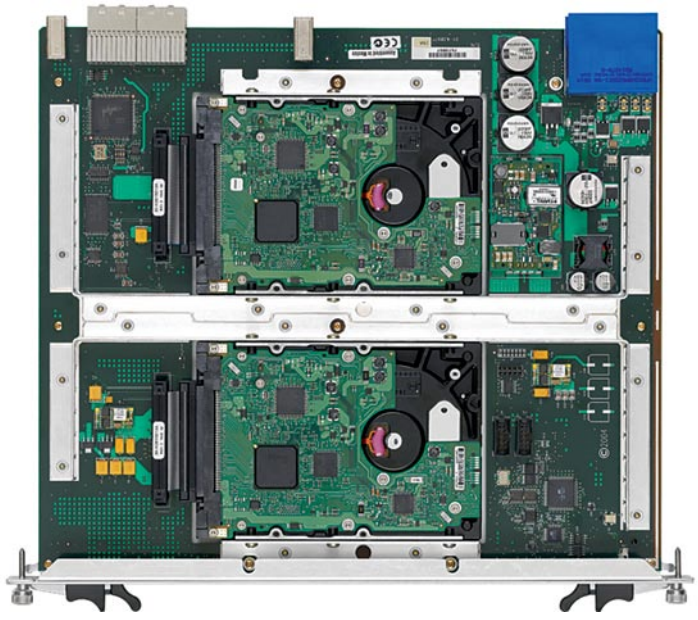
- SCSI-based AdvancedTCA® storage blade
- PICMG® 3.0 compliant
- Single-slot storage solution
- Up to 600GB capacity
- All rear cabling
- Supports SCSI bus speeds of 320 MB/s (U320 LVD interface)
- Carrier Grade Linux drivers included with host blades
- Designed for NEBS and ETSI compliance

The ATCA-S110 storage blade from Emerson Network Power provides single or dual SCSI-based hard drive devices on a single blade. This scalable blade-based architecture, together with on-board interface redundancy, provides cost-effective disk capacity expansion for state-of-the-art high availability AdvancedTCA platforms.

The ATCA-S110 blades are RoHS (6 of 6) compliant, eliminating the need for customers to incur the time, resource and expense associated with creating and/or converting existing product to meet this international requirement.

All SCSI cabling attaches via a separate, companion rear transition module (RTM), ensuring the complete storage blade, containing all active elements, can be replaced without the need to move cabling.

The ATCA-S110 storage blade is equipped with one or two highly reliable 3.5-inch, enterprise class hard drive devices. Storage capacity scales from 300GB to 600GB per blade. Multiple blades can be used within an AdvancedTCA shelf.

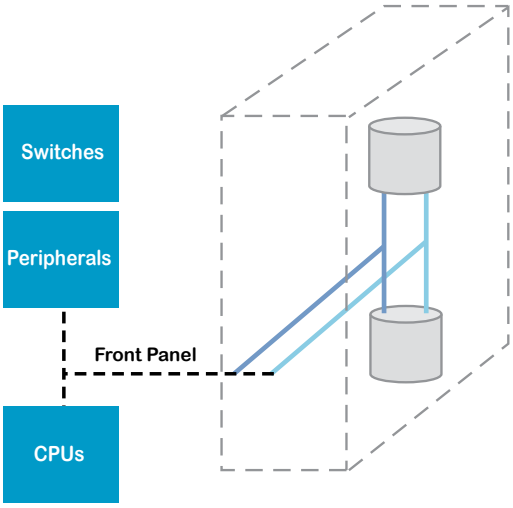


RoHS 6/6 COMPLIANT

AdvancedTCA®

EMERSON™ Network Power

ATCA-S110 Block Diagram



Standard SCSI Bus Support

Dual RTM-mounted SCSI connectors provide for host connectivity through external SCSI cabling, enabling multi-initiator environments, an optional connection to a second ATCA-S110 blade on the same SCSI bus, and providing for the positive benefits of external bus termination.

AdvancedTCA Intelligent Platform Management

The PICMG 3.0 AdvancedTCA standard specifies a low-level, environmental management architecture referred to as intelligent platform management interface (IPMI). The ATCA-S110 blade implements this functionality using an off-the-shelf hardware and software-based IPM controller that monitors all local, blade-specific environmental information. Management access to this information is provided through the Service Availability Forum™ (SA Forum) defined HPI interface.

Hardware

MEMORY CAPACITY

- Two 300GB hard disk drives running at 15000 RPM

EXTERNAL INTERFACES

- Rear Panel
  - Dual SCSI connections

POWER REQUIREMENTS

- Dual-redundant –48V rail
- Input range: 39.5 – 72 VDC
- Typical power: 120W maximum

THERMAL CHARACTERISTICS

- Operating range: –5° C to 55° C

BLADE SIZE

- 8U form factor, 280 mm X 322.5 mm, single slot

RELEVANT STANDARDS

- PICMG 3.0 (form factor, IPMI, hot swap, RTM)

Ordering Information

Part Number	Description
ATCA-S110-600GB-BNDL	ATCA-S110-600GB storage blade + RTM + 2x SCSI cables
ATCA-S110-600GB	ATCA storage blade with 600GB and SCSI interface (RoHS 6/6)
RTM-ATCA-S110	Rear transition module for ATCA-S110 storage blade
CABLE-ATCA-S110	SCSI cables - 8 inch for blade-to-blade; 39 inch for shelf-to-shelf

Regulatory Compliance

Item	Description
Designed to comply with NEBS	GR-63-CORE, NEBS Physical Protection, Level 3
	GR-1089-CORE, Electromagnetic Compatibility and Electrical Safety — Generic Criteria for Network Telecommunications Equipment. Level 3, Equipment Type 2
Designed to comply with ETSI	ETSI Storage, ETS 300 019-2-1, Class 1.2 equipment, Not Temperature Controlled Storage Locations
	ETSI Transportation, ETS 300 019-2-2, Class 2.3 equipment, Public Transportation
	ETSI Operation, ETS 300 019-2-3, Class 3.2 equipment, Partly Temperature Controlled Locations
Designed to comply with Acoustic	ETS-300-753, Equipment Engineering (EE); Acoustic noise emitted by telecommunications equipment
EMC	EN-300-386 Electromagnetic compatibility and Radio spectrum Matters (ERM); telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements, Telecommunication equipment room (attended)
	FCC 47 CFR Part 15 Subpart B (US), Class A
	EMC Directive 89/336/EEC (EU)
	AS/NZS 3548 (Australia/New Zealand), Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
	VCCI Class A (Japan), Voluntary Control Council for Interference by Information Technology Equipment
Safety	Compliance to UL/CSA 60950-1, EN 60950-1 and IEC 60950-1 CB Scheme. Marked with U.S. NRTL, Canadian Safety and CE Mark. Safety of information technology equipment, including electrical business equipment
	ETS 300-132-2 Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by direct current (dc)
RoHS/WEEE compliance	DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
	DIRECTIVE 2002/96/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste electrical and electronic equipment (WEEE)

SOLUTION SERVICES

Emerson Network Power provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh. Plus solution extras include enhanced warranty and repairs.

PICMG, AdvancedTCA, ATCA and the AdvancedTCA logo are registered trademarks of the PCI Industrial Computer Manufacturers Group. Service Availability is a proprietary trademark used under license. All other product or service names are the property of their respective owners.

This document identifies products, their specifications, and their characteristics, which may be suitable for certain applications. It does not constitute an offer to sell or a commitment of present or future availability, and should not be relied upon to state the terms and conditions, including warranties and disclaimers thereof, on which Emerson Network Power may sell products. A prospective buyer should exercise its own independent judgment to confirm the suitability of the products for particular applications. Emerson Network Power reserves the right to make changes, without notice, to any products or information herein which will, in its sole discretion, improve reliability, function, or design. Emerson Network Power does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent or other intellectual property rights or under others. This disclaimer extends to any prospective buyer, and it includes Emerson Network Power's licensee, licensee's transferees, and licensee's customers and users. Availability of some of the products and services described herein may be restricted in some locations.

Emerson Network Power.
The global leader in enabling
Business-Critical Continuity™.

- AC Power Systems
- Connectivity
- DC Power Systems
- **Embedded Computing**
- Embedded Power
- Integrated Cabinet Solutions
- Outside Plant
- Power Switching & Control
- Precision Cooling
- Services
- Site Monitoring
- Surge & Signal Protection

Emerson Network Power

Offices: Tempe, AZ U.S.A. 1 800 759 1107 or +1 602 438 5720 ▪ Madison, WI U.S.A. 1 800 356 9602 or +1 608 831 5500
Shanghai, China +86 215292 5693 ▪ Paris, France +33 1 69 35 77 00 ▪ Tokyo, Japan +81 3 5424 3101
Munich, Germany +49 (0) 89 9 608 2 333 ▪ Hong Kong, China +852 2966 3210 ▪ Tel Aviv, Israel +972 3 568 4387

www.EmersonNetworkPower.com/EmbeddedComputing

Business-Critical Continuity, Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2008 Emerson Electric Co.

ATCAS110-600GB-D1 1/08