

Product Highlights

- AdvancedTCA Carrier Board
- iSCSI and NAS (NFS, CIFS)
- RAID 0,1,1E
- 4 Mid Height AMC Slots

Key Applications

- In Chassis Storage for ATCA hosts
- iSCSI target, NAS file share
- RAID Boot volumes via 10Gb Fabric
- Virtualize External Storage (SAN)
- Diskless server boot

Features

- ATCA PICMG 3.0, Rev 2.0
 - Redundant 10Gb Fabric
 - Redundant 1Gb Base
- AMC.1, PCIe signaling option
- AMC.3, storage signaling option
- Hot swappable AMC
- Hardware RAID 0,1,1E
- PCI-express, 2.5Gb/s
- Up to four AMC disk modules
- AMC storage controllers
- MMC Configurable
- Non-volatile memory for initialization
- 533MHz DDR2, with ECC
- Integrated IPMI, Rev 2.0
- Compatible with Advanced RTM
- iSCSI boot, Windows, Solaris, Linux
- NFS Version 3
- CIF/SAMBA client
- Remote configuration and Setup

Regulatory

- RoHS 6/6
- IEC60950, EN60950
- EN55022, EN50024
- FCC, VCCI, EN5022 (Class A)
- Designed for NEBs compliance

AdvancedTCA®



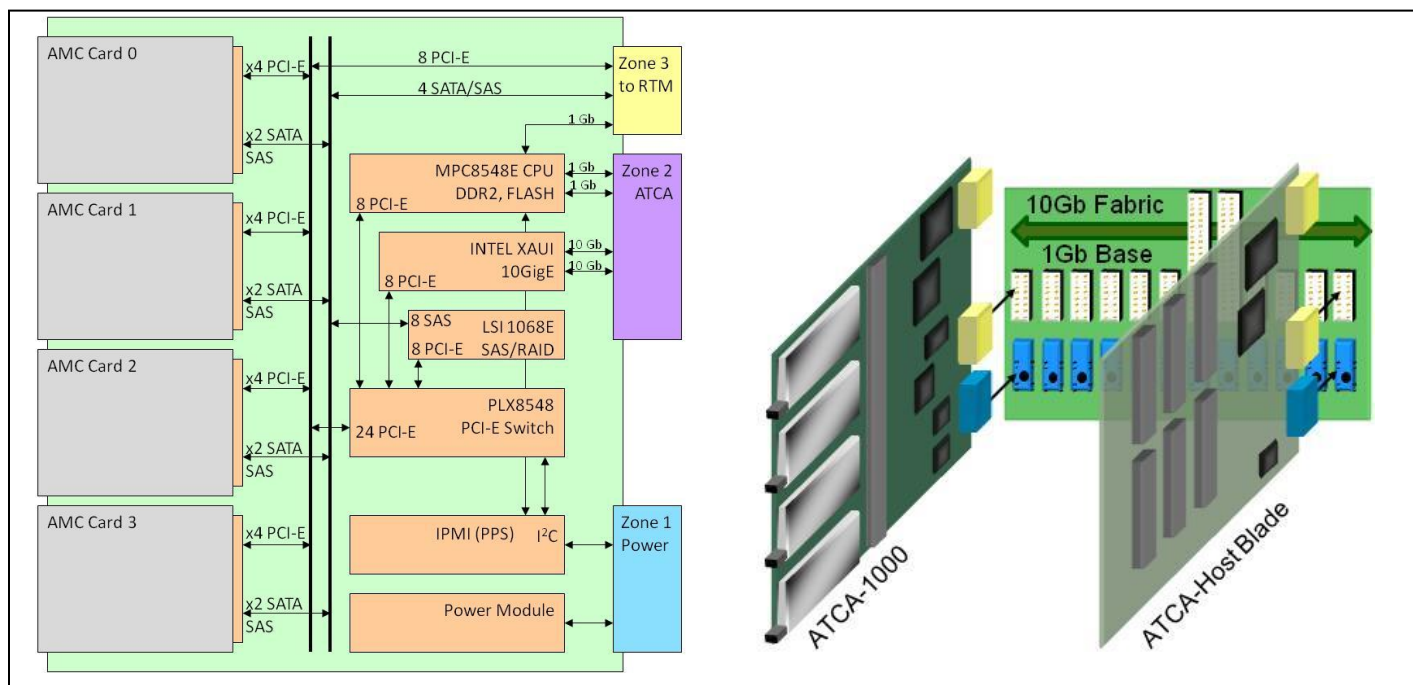
10 Gb RAID Storage Services Blade

The **SANBlaze SB-ATCA1000** is an AdvancedTCA carrier blade specifically engineered to provide multi-protocol IP storage services within an ATCA chassis, including iSCSI and NAS protocols (NFS and CIFS). Key hardware attributes of the ATCA1000 include redundant 10 Gb Ethernet Zone-2 fabric connections, redundant 1 Gb Ethernet Zone-2 base connections, four AMC slots, and compatibility with existing SANBlaze AMC disks modules and advanced RTM (Rear Transition Modules). The highly versatile board also features on board SAS with RAID1/0 and hot-plug support for SAS, SATA or SSD disks delivered in AMC.3 modules. Other storage features include hot sparing, LUN zoning, volume splitting and I/O expansion capability to SANs and JBOD using AMC SAS and FC controllers.

The SB-ATCA1000 blade accommodates up to four mid height (MH) modules, and is wired with both AMC.1 PCIe and AMC.3 storage signaling. The unique configuration permits use of *in-chassis* drive modules including SSD, SATA and SAS, and access to *out-of-chassis* storage using FC and SAS AMC modules to connect JBODs.

The ATCA1000's on-board SAS/SATA controller performs RAID stripping and mirror functions without the need for host CPU. The controller supports Raid 0, 1 and 1E. The RAID controller drives SAS/SATA signals to each of the AMC sites, as well as to an Advanced Rear Transition Module (RTM).

The ATCA-1000 integrates proven, best-of-breed standard components with optimal thermal and power profiles.



ATCA-1000 Block Diagram and Deployment Concept

Technical Specifications:

| COMMON OPTIONS – PCI EXPRESS SWITCH | MANAGEMENT |
|---|--|
| PLX Technology PEX8548 48 Lane PCI Express Switch Compliant with PCI Express Base 1.0a Four Lanes per AMC Module Port Eight Lanes to RTM | Intelligent Platform Management Controller (IPMC) Dual Redundant IPMB A/B Interfaces E-Keying Features Hot Swap supported |
| EXPANSION (AMC and RTM) | LEDS AND SWITCHES |
| Up to Four AMC Modules (each with x4 PCIe, x2 SAS) Advanced RTM Module (x8 PCIe, x4SAS option) IPMP_L Interface between the carrier and AMC Modules | ATCA Failure / Out of Service ATCA LED 2 User Defined ATCA LED 3 User Defined |
| SDRAM | PROCESSOR |
| Up to 1GB DDR memory with Error Checking and Correction (ECC) 200 pin SODIM packaging DDR2, 533MHZ | Freescale Power QUICC III MPC8548 (1.2 GHz) 32KB Separate L1 instruction and data cache 512KB L2 Cache |
| Flash | Zone-2 connections |
| 256KB NAND Flash 8KB Non-volatile Serial EEPROM | Two GigE Ports to the ATCA Backplane Base Two 10GigE Ports to the ATCA Backplane Fabric |
| ORDERING INFORMATION: | PHYSICAL |
| SB-ATCA1000 | ATCA PICMG 3.1 Form Factor Mid-Size AMC Module Support Power Requirements – TBD Max watts |

For more information please visit the SANBlaze web site at: www.sanblaze.com
 or send email info@sanblaze.com.



SANBlaze is a leading provider of storage solutions for embedded systems, delivering high performance enterprise storage technologies and functionality to the embedded computing market. Our AMC, PMC, ATCA and cPCI board level storage solutions provide maximum design flexibility, ease of integration and cost effectiveness.