

### Product Highlights

- AdvancedTCA Carrier Board
- 48 lane PCI-express Bridge
- 4 Mid Height AMC Slots
- Zone-3 Advanced RTM (x8 PCIe)

### Key Applications

- I/O Expansion via AMC
- Expand I/O for slot limited ATCA
- Expand I/O for zero-slot ATCA

### Features

- ATCA PICMG 3.0, Rev 2.0
- AMC.1, PCIe signaling option
- x4 PCIe to each AMC slot
- Front panel status LEDs
- PCI-express 2.5Gb/s
- x8 PCIe to RTM (Burst 20 Gb/S)
- MMC Configurable
- Non-volatile memory for initialization
- Customizable FRU data
- Compatible with Advanced RTM
- Hot swappable AMC
- Integrated IPMI, Rev 2.0
- OEM option, custom zone-3

### Regulatory

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



# AdvancedTCA®

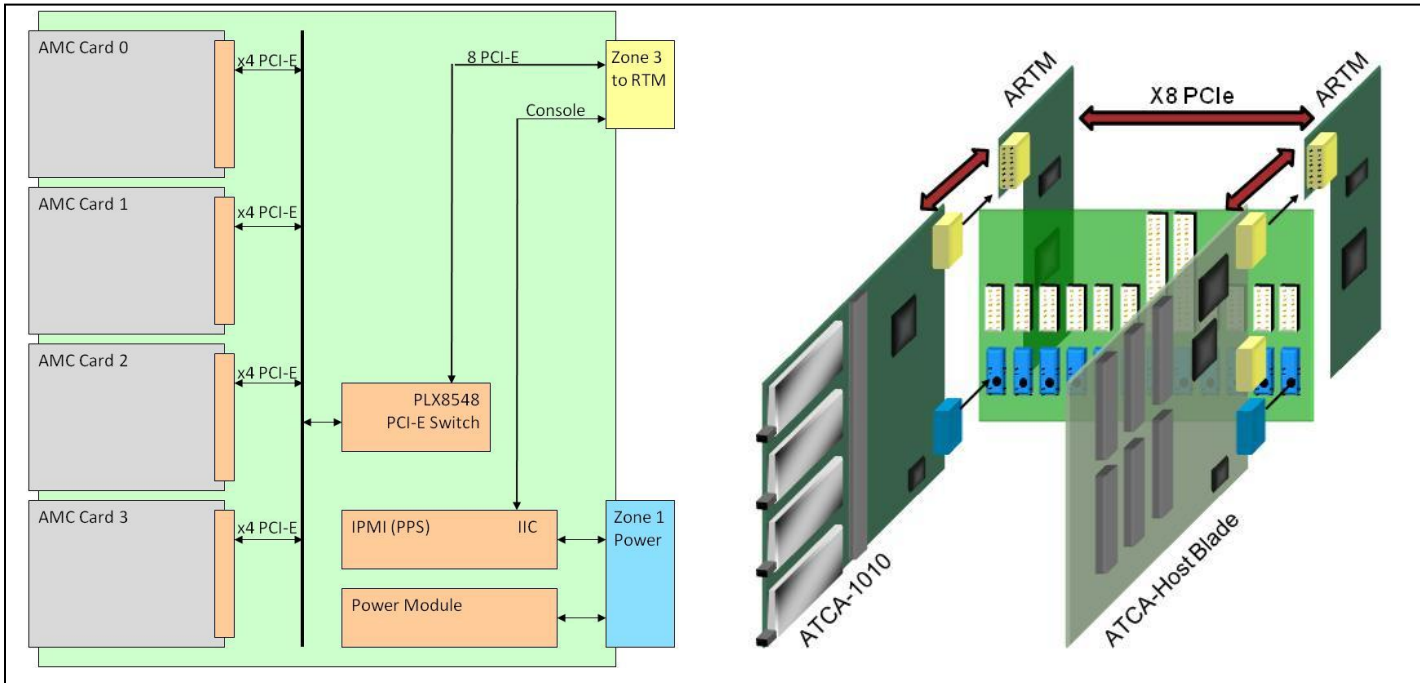
## PCI-express Switch Blade, 4 AMC Slots

The **SANBlaze SB-ATCA1010** is an AdvancedTCA carrier board featuring a 2.5GHz PCI express switch, which ties together four front AMC slots with the RTM zone-3 connector. AMC slots are configurable as either upstream or downstream PCIe using a micro DIP located on the blade. The SB-ATCA1010 provides the ideal PCIe expansion solution when paired with the SANBlaze SB-ARTM403P rear transition module.

The SB-ATCA1010 blade accommodates up to four mid height (MH) modules, and is wired with AMC.1 PCIe signaling. Users may populate the AMC slots with virtually any PCI compliant device, including processor devices or AMC storage access products such as Fibre channel or SAS/SATA with embedded disk drives.

SB-ATCA1010 incorporates components with low power profiles to ensure optimal thermal characteristics, and reserves a full 80W of power for the AMC slot functions. This approach ensures the SB-ATCA1010 will easily fulfill all PCI-express expansion needs, and fit within the power and thermal envelope of the ATCA deployment.





**ATCA1010 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) Advanced RTM Module (x8 PCIe) IPMP_L Interface between the carrier and AMC Modules	ATCA Failure / Out of Service (OOS) ATCA LED 2 RTM Link speed (bi-color) ATCA LED 3 Module power ATCA Blue hot swap LED
ORDERING INFORMATION:	PHYSICAL
<b>SB-ATCA1010</b>	ATCA PICMG 3.1 Form Factor Mid-Size AMC Module Support Power Requirements ~ 150 Max watts

For more information please visit the SANBlaze web site at: [www.sanblaze.com](http://www.sanblaze.com)  
 or send email [info@sanblaze.com](mailto: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.

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