

### Product Highlights

- Two 10Gb SFP+ ports
- Two 1Gb SFP ports
- AMC.1 PCI express x8
- Link/Activity/AMC LEDs
- Mid height AMC form factor

### Key Applications

- High speed network expansion
- Clustering
- Grid computing

### Features

- AMC.0 rev.2 front panel compliant
- AMC.1, PCIe signaling option
- Two 10Gb ports (SFP+)
- Two 1Gb ports (SFP)
- PCI Express, x8, 2.5GHz
- IEEE 802.3ae (10Gb)
- IEEE 802.1Q (VLAN)
- IEEE 802.3ad (Link Aggregation)
- I/O virtualization ready
- CPU thread affinity
- IP packet classification hardware
- TCP and UDP checksum offload
- CRC32C support
- L1 - L4 IPv4/v6 header parsing
- Jumbo frame support (up to 9216B)
- 16 unique MAC addresses per port
- 24 DMA channels
- Integrated IPMI, Rev 1.5, 2.0

### Regulatory

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



**AdvancedMC™**

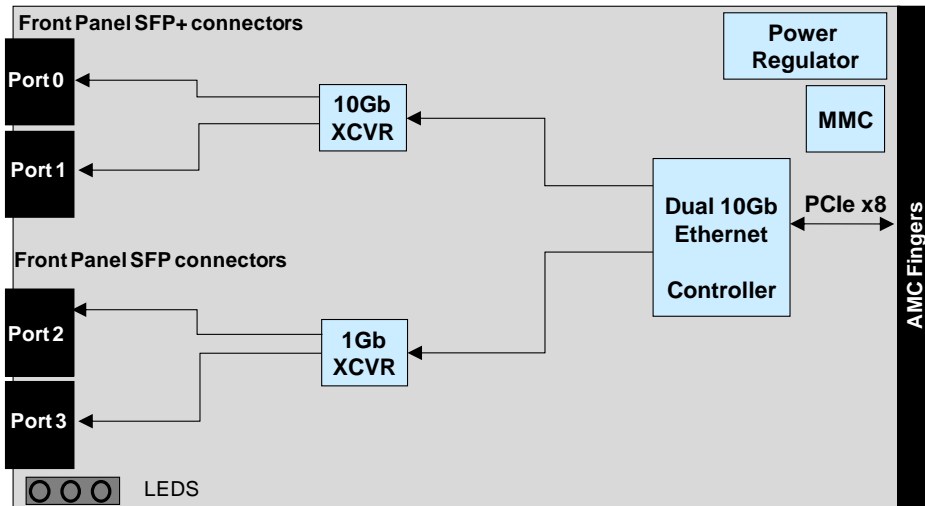
### 4 Ports: Dual 10Gb and Dual 1Gb Ethernet

The SANBlaze SB-AMC56 is a mid height AMC module that sets a new standard for functional density in high-speed network products. This module includes a pair 10GbE ports for network-intensive telecommunication applications. The module also includes a pair of 1GbE ports to access legacy switch equipment. The combination allows the user to segregate data intensive high bandwidth traffic from other data-center or management traffic.

The SANBlaze SB-AMC56 offers numerous performance acceleration features that include hardware-based flow classification, dozens of independent DMA channels, CPU thread-affinity and both TCP and UDP offload features. Combined together, these features result in greater network I/O performance while at the same time reducing the burden on CPU resources- leaving more CPU cycles for the application.

The module is compatible with both long range and short range SFP optics, (supplied separately). The 1GbE ports may be populated with copper SFP modules. The AMC front panel is mid height (MH) and is AMC.0 rev 2.0 compliant. The module also conforms to the PCI-express signaling defined in AMC.1.

**Block Diagram:**



**Technical Specifications:**

FRONT PANEL CONNECTIONS	MANAGEMENT
Two optical *SFP+ 10Gb Ethernet Two optical *SFP 1Gb Ethernet (Supports copper SFP option)	Intelligent Platform Management Controller (IPMC) Dual Redundant IPMB A/B Interfaces E-Keying Features
AMC CONNECTOR	LEDS AND SWITCHES
X8 PCI express , rev. 1.1-Compliant (2.5MHz) IPMP_L Interface between the carrier and AMC Modules Console and LAN pass-thru	AMC Failure / Out of Service AMC Hot Swap Activity and link for all Ethernet ports.
OS SUPPORT	POWER
Monte Vista Solaris x86, version 2.8 through 11 Solaris SPARC, version 2.6 through 11 Linux 2.6 Kernels	25W max (12V)
ENVIRONMENTAL CONDITIONS	CERTIFICATIONS
Operating Temperature 0°C to +55°C Storage Temperature -40°C to +105°C Relative Humidity 5% to 90%	FCC Class A, VCCI, CE Designed for safety compliancy: IEC60950, EN60950 EN55022, EN50082
ORDERING INFORMATION:	PHYSICAL
<b>SB-AMC56M</b> (mid height panel) <b>SB-AMC56F</b> (full height panel)	AMC Form Factor Mid or full height panel

\*This module ships without SFP+, SFP

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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