

### Product Highlights

- Four 1000Base-T ports (RJ45)
- AMC.1 PCI express x4 (Gen2, 5GT/s)
- Link/Speed/AMC LEDs
- Mid or Full height AMC form factor

### Key Applications

- Slot constrained ATCA blades
- uTCA or ATCA applications
- LAN aggregation functions
- iSCSI boot

### Features

- AMC.0 R2.0 front panel compliant
- AMC.1, PCIe signaling
- PCI Express, x4, 2.5 or 5.0MT/s
- 4 Ports 1Gb Ethernet, for CAT5 copper
- IEEE 802.3ab Auto-Negotiation support
- IEEE 802.1q (VLAN)
- IEEE 802.3ad (Link Aggregation)
- IPv4 and IPv6 support
- On-chip receive/transmit buffers (48kB)
- TCP and UDP checksum offload
- TCP segmentation offload
- Jumbo frame support (up to 9kB)
- PXE boot (Preboot eXecution)
- iSCSI remote boot support
- Link/Speed LEDs for all LAN ports
- Integrated IPMI, Rev 1.5x
- Customizable FRU data, OEM Labeling

### Regulatory

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



SB-AMC59M

**AdvancedMC™**

### 4 Ports: 1Gb Ethernet

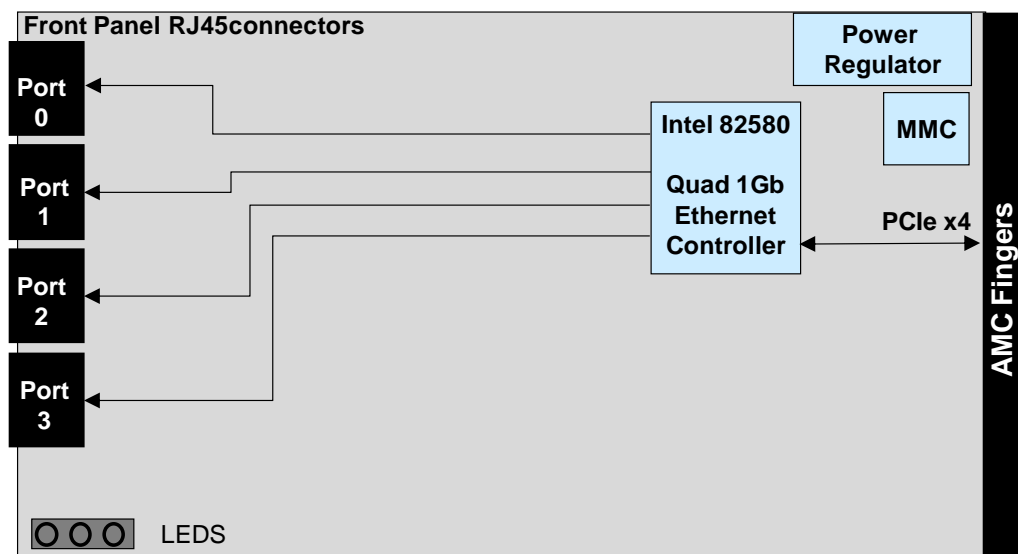
The SANBlaze SB-AMC59 is a full or mid-height AMC module that features four (4) ports of 1Gb Ethernet ports.

Each LAN port provides a fully independent Ethernet connection, with independent IP credentials; all ports can simultaneously achieve line-rate operation, supporting 10Base-T/100Base-Tx/1000Base-T link speeds.

Featuring an Intel 82580EB Ethernet controller, the SB-AMC59 boasts numerous performance acceleration features that include wide internal data paths, independent transmit and receive queues, and up to 64 packet descriptors cached on-chip. TCP/UDP/IP checksum offloading, TCP segmentation assist, and large 48 KByte per port on-chip packet buffers ensure your application will attain superior performance and low latency.

The module also conforms to the PCI-express signaling defined in AMC.1. It includes an MMC to manage hot-swap control, monitor numerous on board voltage and temperature sensors, and is fully remotely manageable via IPMI v1.5x protocol.

**Block Diagram:**



**Technical Specifications:**

FRONT PANEL CONNECTIONS		MANAGEMENT
Four- 10/100/1000BaseT Ethernet (RJ45)		Memory Management Controller (MMC) E-Keying Features
AMC CONNECTOR		CERTIFICATIONS
X1, x4 PCI express , V2.0 (2.5 or 5.0 MT/s) IPMP_L signal interface		FCC Class A, VCCI, CE Designed for safety compliancy: IEC60950, EN60950 EN55022, EN50082
OS SUPPORT		POWER
Linux, Windows		4.4W max
ENVIRONMENTAL CONDITIONS		LEDS
Operating Temperature 0°C to +70°C		AMC Blue HS (hot swap), AMC LED2 Green ACT (active) AMC LED 1 Red OOS (Out of Service) Link and Speed LEDs for all Ethernet ports
ORDERING INFO		
Part number*	Subassembly model	Description
<b>SB-AMC59M</b>	600-059001	Quad 1GE, Mid-height panel
<b>SB-AMC59F</b>	600-059001	Quad 1GE, Full-height panel

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 Technology, Inc. is a leading provider of storage, networking and multifunction solutions for embedded systems and a pioneer in SAN Emulation technologies. SANBlaze embedded computing products include a complete ecosystem of ATCA storage blades, AMC and PMC storage and networking controllers and modules and a growing line of multifunction RTMs for ATCA blades. Additionally, the company provides fully configured and integrated ATCA systems and services.