

Product Highlights

- Four 1000Base-T ports (RJ45)
- One/Two SATA/SSD disk (order option)
- AMC.1 PCI express x4 (Gen2, 5GT/s)
- AMC.3 Storage signaling (Port 2 and 3)
- Link/Speed/AMC LEDs
- Mid or Full height AMC form factor

Key Applications

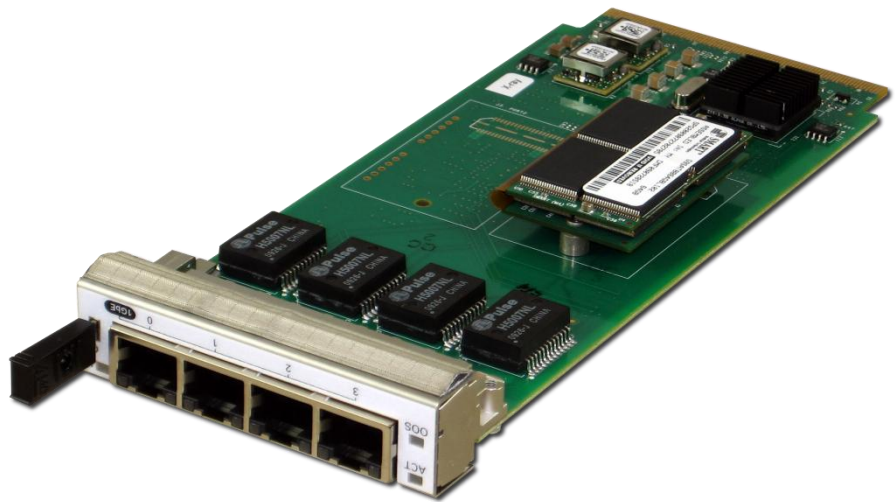
- Slot constrained ATCA blades
- uTCA or ATCA applications
- LAN aggregation functions
- iSCSI boot
- SATA Boot or data disk (option)

Features

- AMC.0 R2.0 front panel compliant
- AMC.1, PCIe signaling
- AMC.3, Storage signaling (option)
- 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)
- Designed For NEBs compliance



SB-AMC59M050i

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, and option to accommodate two solid-state disks (SSD). Choose capacities up to 400GB, with the choice of either SLC or eMLC flash technologies.

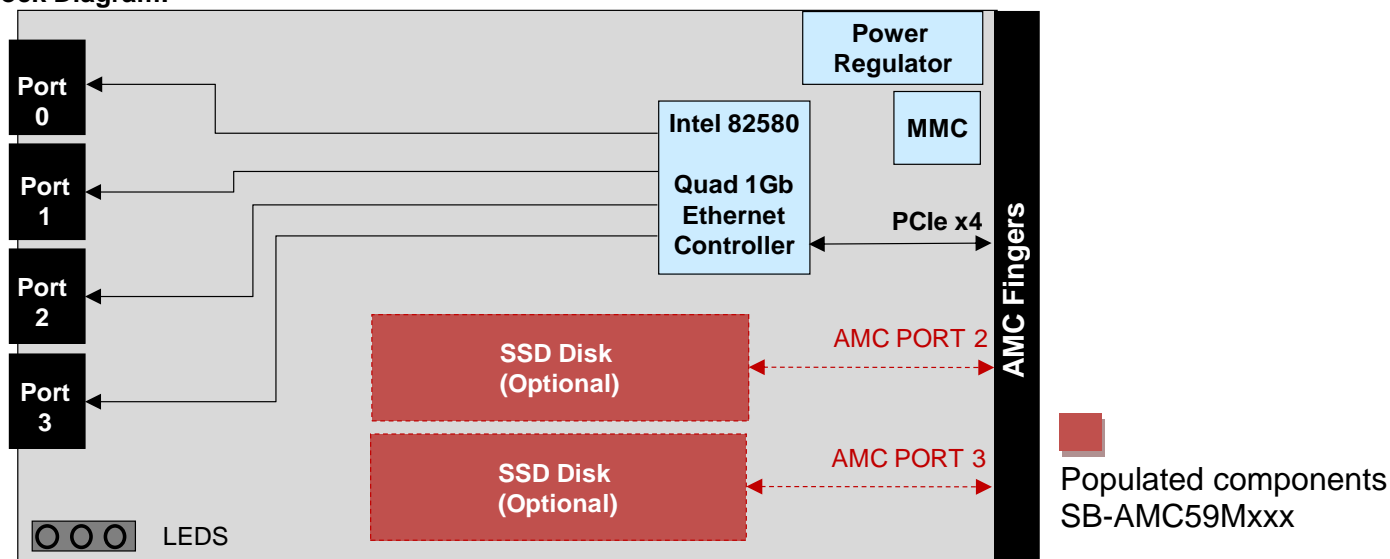
By combining both LAN and disk functions, the SB-AMC59, is ideal for ATCA or uTCA designs that have limited slots available.

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. All disks comply with AMC.3 serial storage signaling. 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) Two X1 SATA, 3Gb/s each 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 (12V without disk), 10W max (12V with disk)	
ENVIRONMENTAL CONDITIONS		LEDS	
Operating Temperature 0°C to +70°C w/no disk Operating Temperature 0°C to +70°C w/SSD		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 , *Use M =Mid height AMC panel,1 SSD Use D =Mid height AMC panel,2 SSD			
		F=Full height AMC panel, 1 SSD T=Full height AMC panel, 2 SSD	
Part number*	Disk (xxx=capacity GB)	Subassembly model	Description
SB-AMC59M	None	600-059000	Quad 1GE, No SSD, Mid-height panel
SB-AMC59Mxxx	SSD (SLC) xxx=050 or 100	600-059010	Quad 1GE, with SSD, Mid-height panel xxx designates disk capacity (GB).
SB-AMC59Mxxx	SSD (MLC) xxx=100 or 200		
SB-AMC59Mxxx	SSD (eMLC) xxx=200		

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