

Product Highlights

- Two 10Gb SFP+ ports
- AMC.1 PCI express x8 (5GT/s, Gen2)
- Link/Speed/AMC LEDs
- Mid or Full height AMC form factor

Key Applications

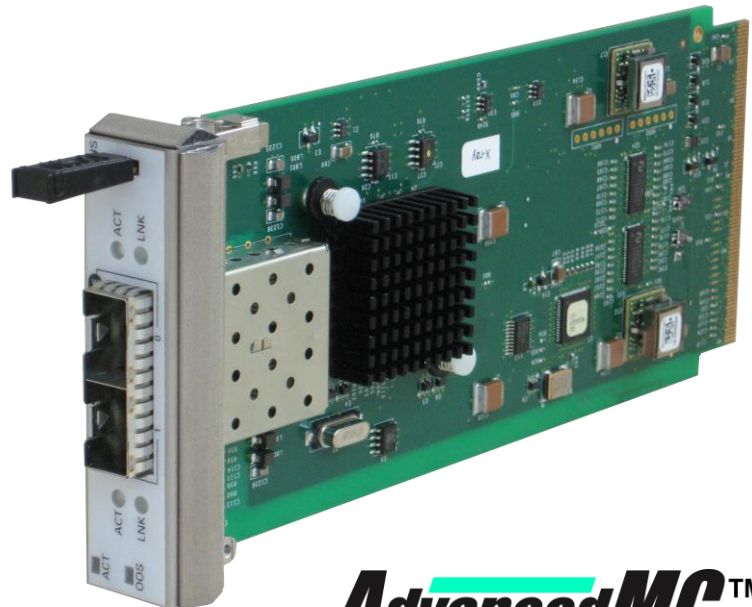
- High speed network expansion
- Virtualization and Clustering
- uTCA or ATCA applications
- FCoE (Fibre Channel over Ethernet)
- iSCSI Boot, iSCSI storage

Features

- AMC.0 R2.0 front panel compliant
- AMC.1, PCIe signaling
- Tunable PCIe signals
 - Amplitude, pre-emphasis
- PCI Express, x8, 2.5 or 5.0MT/s
- SFP+ (10GBASE-SR or 10GBASE-LR)
- IEEE 802.3ap Auto-Negotiation support
- IEEE 802.1q (VLAN)
- IEEE 802.3ad (Link Aggregation)
- IPv4 and IPv6 support
- On-chip receive/transmit buffers
- TCP and UDP checksum offload
- TCP segmentation offload (up to 256kB)
- Jumbo frame support (9kB or 15kB)
- 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-AMC58M

AdvancedMC™

2 Ports: 10 Gb Ethernet

The SANBlaze SB-AMC58 is a full or mid-height AMC module that features two (2) 10GbE ports.

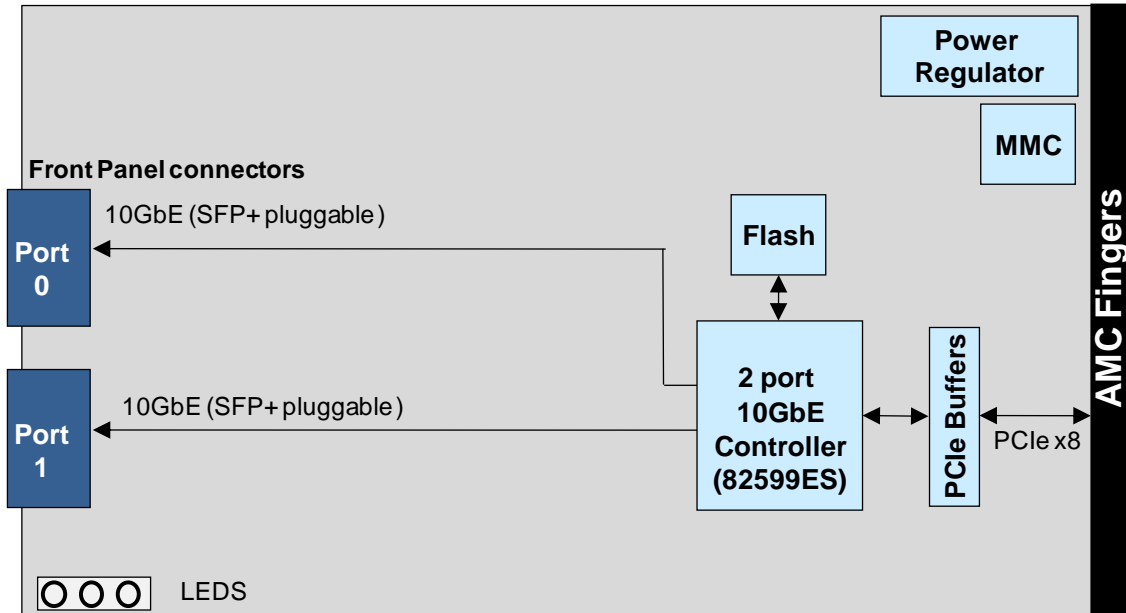
Each port provides a fully independent Ethernet connection, with independent IP credentials; both ports can simultaneously achieve line-rate operation. Each port can link at 10 Gb/s accommodating one SFP+ optical module.

Featuring an Intel 82599ES 10 Gigabit Ethernet controller, the SB-AMC58 boasts numerous performance acceleration features that include 128 transmit and 32 receive queues. TCP/UDP/IP checksum offloading and TCP segmentation assist.

For server virtualization environments, the controller offers up to 64 virtual machines (VMs), 128 MAC addresses and L2 VLAN filters. VMDc (Virtual Machine Direct connect) capability allows bandwidth from a single port to be allocated to specific VM's. SR-IOV allows partitioning of PCI function into many VM's.

The module also conforms to the PCI-express signaling defined in AMC.1. Rev 2. 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
Two SFP+ connectors (Accepts LR or SR Optics)		Memory Management Controller (MMC) E-Keying Features
AMC CONNECTOR		CERTIFICATIONS
x1 ,x4, x8 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, VMware ESX/ESXi 4.0		11W max (10VDC to 14VDC supply)
ENVIRONMENTAL CONDITIONS		LEDS
Operating Temperature 0°C to +55°C		AMC Blue HS (hot swap), AMC LED2 Green ACT (active) AMC LED 1 Red OOS (Out of Service) Link and Speed LEDs for both Ethernet ports
ORDERING INFO		
Part number	Subassembly model	Description
SB-AMC58M	600-058000	Dual 10GE, Mid height AMC module
SB-AMC58F	600-058000	Dual 10GE, Full height AMC module

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.