

Product Highlights

- Two 2.5" SATA or SSD disks
- One AMC or MicroTCA slot
- Support Independent hosts
- Full height AMC form factor
- Mid height panel option for SSD

Key Applications

- In chassis embedded storage systems requiring maximum capacity
- AMC storage for MicroTCA
- Slot limited MicroTCA Chassis
- Extended duty deployment requirements

Features

- AMC.0 rev.2 front panel compliant
- AMC.3 rev1, storage signaling option
- Capacity options 80-160GB (each)
- SSD Capacity 32-128GB (each)
- Front panel, two disk activity LEDs
- Serial ATA 1.0a compliant
- Serial burst data rate 1.5-3.0Gb/s
- High data bandwidth
- Extending environmental ranges
- S.M.A.R.T support
- Hot swappable
- RoHS compliant
- Integrated IPMI
- Support field firmware upgrades

Mid-height



Dual SATA Disk Module

The SANBlaze SB-AMC49 is a dual-drive AMC module for slot limited ATCA and MicroTCA designs. The module is fitted with two 2.5" SATA or SSD disks, each with independent access ports, multiple disk capacities and thermal configurations.

For ATCA carrier applications, a Mid-height panel option is available for SSD configurations. A full height (FH) is fitted to all other configurations. The modules are AMC.0 rev 2.0 compliant, and also conform to the serial storage signaling defined in AMC.3.

The SANBlaze SB-AMC49 opens new opportunities for chassis with lower slot counts. Typical MicroTCA architectures pair one AMC drive module with one AMC processor. This module is able to support two independent processors yet consume only one AMC slot. Users may populate the freed slot with additional AMC functions that simply didn't fit prior.

Alternatively, if storage I/O performance was impairing your MicroTCA application, the SB-AMC49 can potentially yield up to 2x improvements when paired with AMC host that have two disk ports.

The SB-AMC49 is available with multiple drive technology options. The entry version features a pair of standard 2.5" SATA drives with multiple density options. The SB-AMC49 may also be purchased with either Extended Duty or Extreme environments which tolerate more severe application or deployment needs.

Technical Specifications:

SB AMC49	SATA (rotational)	SSD	AMC CONNECTOR
Capacity:	80-320GB (per disk)	32-128 GB	AMC.3 , rev. 1 Compliant IPMP_L Interface between the carrier and AMC
Seek Time (track to track)	1.5 ms (typical)	1 ms (Read/Write)	
Average:	12ms (read)/ 14 ms (write)		
Rotational speed	5400 RPM	n/a	CERTIFICATIONS
Buffer size	8MB		FCC Class A, VCCI class A, EN5022 Class A
Front Panel	Green=Port2, Amber=Port3, blink=activity		Designed for safety compliancy: IEC60950, EN60950 EN55022, EN50024
Burst Rate (max)	150MB/sec	300MB/sec	
Front panel color LED	1 green LED for each port, blinks with I/O activity.		
Environmental			MANAGEMENT
Operating Temperature	See ordering info	0-85	Intelligent Platform Management Controller (IPMC) Dual Redundant IPMB A/B Interfaces E-Keying Features
Storage Temperature	-40 to 65 °C	-40 to 90 °C	
Relative Humidity	8%-90%	8%-90%	
Altitude	-300 to 3000meters	-300 to 5000meters	
Shock	300G, 2mS	300G, 2mS	
Vibration	1.0 G (5 to 500Hz)	2.0 G (5 to 500Hz)	
Power typical	7-12W	.65W (idle) / 5W (max)	

Ordering Information:

SB-AMC49F080X

Base Part Number	Front Panel Height Designation	Drive Size Giga Byte (GB)	Operating Temperature
SB-AMC49	F= full	080,160, 250, 320	Blank= 5°C to +55°C
SB-AMC49	F= full	080, 160, 250	X= 5°C to +55°C Note 1
SB-AMC49	F= full	080	E= 0°C to +85°C Note 2
SB-AMC49 (Solid State Disk)	M= mid F= full	032,064,128	S= 0°C to +70°C N= 0°C to +85°C

Note 1: 'X' SATA disks are rated as extended duty by the supplier, which signifies 24x7 duty cycles

Note 2: 'E' SATA disks are rated as extreme environment which signifies 24x7 duty cycles and 85 °C operation.

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 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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