

Product Highlights

- PCI-Express SATA controller
- Two 2.5" SATA disks
- RAID 0,1 option
- Disk Activity LEDs
- Full height AMC form factor

Key Applications

- AMC storage for MicroTCA
- Slot limited MicroTCA Chassis
- Ruggedized deployments
- High temperature operation (85 °C)

Features

- AMC.0 rev.2 front panel compliant
- AMC.1 PCI express option
- SATA capacity: up to 320GB (each)
- JBOD or RAID0 support
- Front panel, disk activity LEDs
- Serial ATA 1.0a compliant
- SATA burst data rate 3.0Gb/s
- PCI-express burst data rate 2.5Gb/s
- High data bandwidth
- S.M.A.R.T support
- Hot swappable
- AMC Port selection feature
- RoHS compliant
- Integrated IPMI, Rev 1.5, 2.0

Regulatory

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



PCI-express SATA controller with one or two disks

The SANBlaze SB-AMC52 is an AdvancedMC module featuring a PCI-express to 2-port Serial ATA (SATA) controller, one or two 2.5" SATA disks, and MMC support logic. Disk population options include standard SATA disks, extreme environment SATA (85C) or Solid State Disks (SSD).

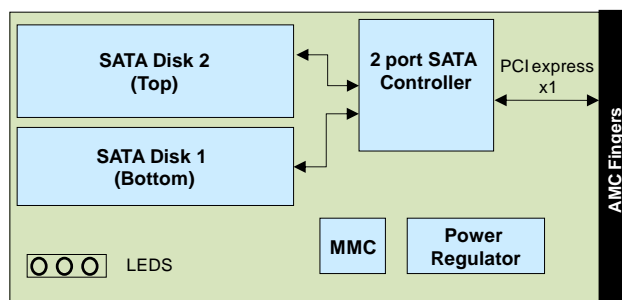
The SANBlaze SB-AMC52 supports SATA-II disk technology including 1.5 or 3.0 Gb/s transfer speeds, native command queuing, and signal integrity 'tuning' circuits to adjust and optimize signal output strength to best match the μ TCA deployment environment.

Using the BIOS or OS setup tools, the SB-AMC52 disk pair can be configured as either JBOD (two independent disks), RAID0 or RAID1 (single combined virtual disk) volumes. Configuration tools are offered for both Windows and Linux environments.

The module front panel is full height (FH) with two drives, mid height for one drive, and is AMC.0 rev 2.0 compliant. The module also conforms to the serial storage signaling defined in AMC.3.

The SB-AMC52 is available with multiple disk technology options. The entry version feature standard 2.5" SATA drives with multiple density options. It may also be purchased with extended duty SATA, extreme environment SATA (85C), or Solid State disks to meet virtually any application or environment deployment need.

SB-AMC52
Block Diagram



Technical Specifications:

Specification		'Blank' Standard Duty SATA	'X' Extended Duty SATA	'E' Extreme Environment SATA	SSD Solid state disk	
					"S"	"N"
Temperature	Operating (Ambient)	5 to 55°C	5 to 55°C	0 to 85°C	5 to 70°C	0 to 85°C
Humidity	Operating	8 to 90% RH	8 to 90% RH	5 to 90% RH	5 to 95% RH	
Vibration	Operating	1G (5 to 500Hz)	1G (5 to 500Hz)	2G (5 to 500Hz)	15G (peak to peak)	
Shock	Operating	325 G / 2ms	325 G / 2ms	300 G / 2ms	50 G / 2 ms duration	
Altitude	Operating	-300 to 3000 m	-300 to 3000 m	-300 to 4500 m	-300 to 15,000m	
Performance	RPM	5400	5400	5400	Not applicable	
	Seek Typical	Read/write 5.6 ms	Read/write 5.6 ms	Read/write 11 ms	Read/write 0.2 ms	
	Capacity *2	Max: 640GB	Max: 320GB	Max: 160GB	Max:512GB	
Power (max)	Watts@12V	12W @ spin-up	12W @ spin-up	12W @ spin-up	12W	

Ordering Information:

SB-AMC52pddd#

Base Part Number	p=AMC Front Panel Height	ddd =Drive Size Giga Byte (GB)	#=Hard Drive Description
SB-AMC52	M=Mid with 1 disk F=Full with 1 disk D=Full with 2 disk	080, 160, 250, 320, 500	Blank= 5°C to +55°C
		080, 160, 250	X= 5°C to +55°C Note 1
		080	E= 0°C to +85°C Note 2
		032, 064,128,256*	S = 0°C to +70°C (SSD³) N = 0°C to +85°C (SSD³)

Note 1: The 'X' disk model is rated for extended duty by the supplier, which signifies 24x7 duty cycles
 Note 2: The 'E' model disk is rated as extreme environment which signifies 24x7 duty cycles and 85° C operation.
 Note 3: The 'S' and 'N' models feature Solid State Disk (SSD) technology, *256GB capacity available 2Q09.

PRELIMINARY - This is preliminary information on new products not yet fully characterized. All specifications in this data sheet are subject to change in any manner without notice.

For more information please visit the SANBlaze web site at: www.sanblaze.com
 or send email to: 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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