

Product Highlights

- Advanced MC module
- SATA or SAS Hard drive options
- Disk activity LED
- Compact, Mid or full height front panels

Key Applications

- Multipath SAS Configurations
- ATCA, In chassis embedded storage systems requiring on board, hot swappable storage
- Enterprise SAS storage
- *Micro* TCA applications

Features

- AMC.0 rev.2 front panel compliant
- AMC.3 rev1, storage signaling option
- One Integrated 2.5" SAS/SATA disk
- Capacity options:
 - SATA 80 - 500GB
 - SAS 146GB
- SATA Extended Duty
 - SATA 80 – 250GB
- SATA Extreme Duty 80GB
- Front panel, bi-color disk activity LED
- Extending environmental ranges
- S.M.A.R.T support
- Hot Swappable
- Integrated IPMI

Regulatory

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



AdvancedMC™

SATA/SAS Disk Drive Module

The SB-AMCHD module is a Drive Carrier Module for AdvancedTCA or MicroTCA systems. The module can be configured with one 2.5 inch SATA hard drive, or one 2.5 inch SAS drive. The module is AMC.0 compliant and uses the serial storage signaling defined in AMC.3.

The solution has the added feature of port selection in a SATA configuration. This switch selectable option allows the SATA drive to be driven by either AMC Port -2 or Port-3, providing system design flexibility. In the SAS configuration, this circuitry also allows the secondary port of the SAS drive to be connected to the AMC Port-3 while the primary port of the SAS drive is connected to the AMC Port-2, providing for enterprise class storage design options such as redundancy and failover.

The SB-AMCHD is available with multiple drive technology options. A version with a 2.5" SATA drive is available as a lower cost storage solution. Support for Extended Duty SATA drives allows for more robust requirements. The SAS version provides a more robust, enterprise class storage option.

Available front panel options include full or mid height (MH) or compact height Advanced Mezzanine Card (AMC).

The SB-AMCHD tracks disk technology advancements and makes them available to embedded systems designers in mid/full height AMC form factor that supports hot swap.

Technical Specifications:

SB AMCHD	SATA Drives	SAS Drive
Capacity:	80, 160, 250, 320, 500GB	146GB
Seek Time (track to track)	1.5 ms typ.	0.2/0.4 ms (Read/Write)
Average:	12.5/14.5 ms (Read/Write)	4.0/4.5 ms (Read/Write)
Maximum:	22ms (Average)	8.0/9.0 ms (Read/Write)
Rotational speed	5400 RPM	10,025 RPM
Buffer size	8MB	8MB
Front panel LED	ACT Green=Module power, OOS red=out of service, HS blue=hotswap	
Environmental Conditions		
Operating Temperature	See ordering information	5°C to +55°C
Storage Temperature	-40°C to +70°C	-40°C to +70°C
Relative Humidity	5%-90% (Operating)	5%-90% (Operating)
Power typical	<3.6W (typical)	<7.8W (typical)

Ordering Information:

SB-AMC45M160X – SATA Extended Duty, Mid Height, 160GB

SATA base model #	AMC Panel Height	Drive Size (GB)	#=Hard Drive Description
SB-AMC45	M= mid F= full	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	S = 0°C to +70°C (SSD ³) N = 0°C to +85°C (SSD ³)
SAS base model #	AMC Panel Height	Drive Size (GB)	#=Hard Drive Description
SB-AMC48	M= mid F= full	146	Blank= 5°C to +55°C

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

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

Note 3: 'S' and 'N' models feature Solid State Disk (SSD) technology

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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