

Product Highlights

- Advanced MC module
- SATA-II Disk support, with NCQ
- Disk activity LED
- Vendor adjustable Serial links
- Mid or full height front panels

Key Applications

- ATCA, In chassis embedded storage systems requiring high performance
- *Micro* TCA applications
- Full duty cycle SATA
- Rugged, high capacity, high throughput, mission critical requirements

Features

- AMC.0 rev.2 front panel compliant
- AMC.3 rev1, storage signaling option
- Capacity options 40-160 GB
- Front panel, bi-color disk activity LED
- Serial ATA II compliant
- Serial burst data rate 3.0Gb/s
- High data bandwidth
 - 35-45 MB/s sustained read
 - 35-43 MB/s sustained write
- Extending environmental ranges
- S.M.A.R.T support
- Hot Swappable
- RoHS Compliant
- Integrated IPMI
- Tunable SATA Phy link parameters



AdvancedMC™

SATA II Disk Drive Module

The **SANBlaze SB-AMC60** is a second generation AdvancedMC disk module for AdvancedTCA or MicroTCA systems. This highly flexible AMC card accommodates 2.5" SATA II disk drives – with multiple capacity and performance options to meet your project needs.

New SATA-II disk technology operates serial links at 3Gb/s and supports native command queuing (NCQ), for optimal random I/O performance. For backward compatibility, the module also supports legacy 1.5Gb/s serial link speeds.

Available front panel options include full or mid height (MH) Advanced Mezzanine Card (AMC). The module is AMC.0 rev 2.0 compliant and uses the serial storage signaling defined in AMC.3.

Advanced features of the SB-AMC60 includes new signal integrity 'tuning' circuits to adjust and optimize the high speed SATA serial links to better tolerate imperfections in μ TCA backplanes; it also includes a port selection switch to route traffic over either AMC Port-2 or Port-3 for greater AMC deployment flexibility. The port selection feature enables deployment configurations that utilize two AMC60 with a single AMC SAS controller.

The SB-AMC60 with SATA-II disk compatibility, tracks disk technology advancements and makes them available to telecommunication equipment manufacturers in mid/full height AMC form factor that supports hot swap.

Technical Specifications:

SB AMC60	
Capacity:	40, 60 , 80, 100, 120 and 160GB
Seek Time (track to track)	1.5 ms typ.
Average:	12.5/14.5 ms (Read/Write)
Maximum:	22ms (Average)
Rotational speed	5400 RPM
Buffer size	8MB
Front panel bi-color LED	Green=Port2, Amber=Port3, blink=activity
Environmental Conditions	
Operating Temperature	See ordering information
Storage Temperature	-40°C to +70°C
Relative Humidity	5%-90% (Operating)
Altitude	-300 to 3000meters
Shock	350G, 2mS
Vibration	1.0 G (5 to 500Hz)
Power typical	2W (typical)

Ordering Information:

SB-AMC60M120X

Base Part Number	Front Panel Height Designation	Drive Size Giga Byte (GB)	Operating Temperature
SB-AMC60	M= mid F= full	040 060 080 120 160	Blank= 0°C to +55°C
SB-AMC60	M= mid F= full	040 060 080 120 160	X= 5°C to +55°C Note 1

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

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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