

Product Highlights

- Advanced MC module
- SAS Disk support, 10K RPM
- Front panel SAS connector
- Disk activity LED
- Mid or full height front panels

Key Applications

- Multi-path SAS configurations
- ATCA, In chassis embedded storage systems requiring high performance
- Micro TCA applications
- Enterprise SAS storage
- Rugged, high capacity, high throughput, mission critical requirements

Features

- AMC.0 rev2 front panel compliant
- AMC.3 rev1, storage signaling option
- One integrated 2.5" SAS hard drive
 - Port A routed to AMC port2
 - Port B routed to front panel
- Front panel SAS connector with access to AMC port 3 and SAS disk (port B)
- Capacity options 146-300 GB
- Front panel disk activity LED
- Serial burst data rate 3.0Gb/s
- 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™

SAS Disk Drive Module

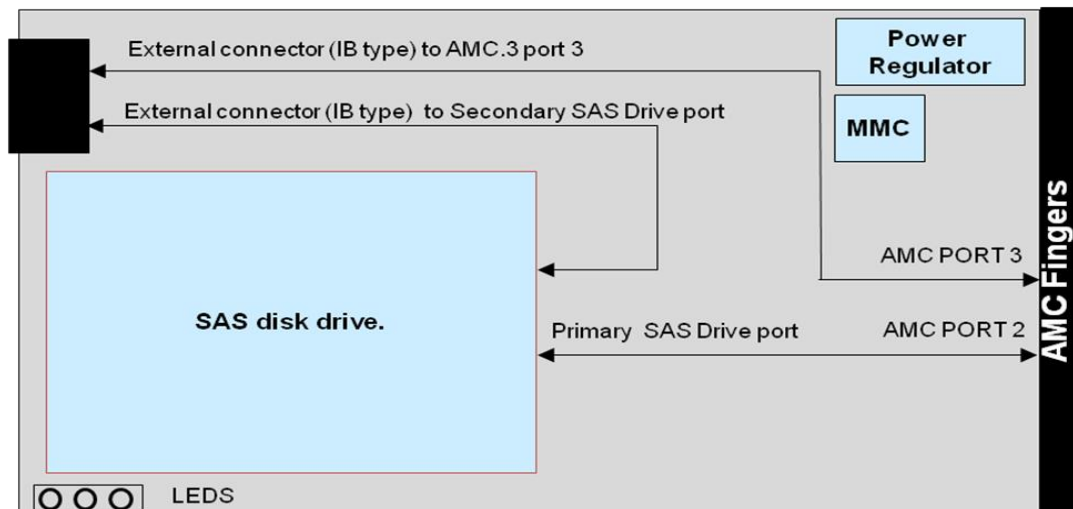
The **SANBlaze SB-AMC42** is an AdvancedMC disk module for AdvancedTCA or MicroTCA systems. The module incorporates a dual port 2.5" SAS hard disk (HD) and a front panel SAS connector to facilitate redundant SAS topology deployments.

The front panel SAS connector provides two pairs of differential SAS ports for multipath aware applications. One port is routed to the SAS disk and the second is routed to port 3 of the AMC edge connector. This configuration enables designers to deploy the SB-AMC42 in environments that support SAS multipathing features.

The modules innovative construction with a mechanical cut-out area, accommodates a SAS disk drive and front panel options for 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. LED indicators on the front panel provide visual status for hot swap, out-of-service (OOS) and disk I/O activity.

The SB-AMC42 features an enterprise class, 10K RPM SAS disk for superior random I/O performance, vs. slower spinning disk alternatives. SAS is considered the most robust solution for telecommunication applications that require the highest workload profiles in a 24x7 duty cycle environment.

Block Diagram:



Technical Specifications:

SB AM42	SAS Drives
Capacity:	146 and 300GB
Seek Time (track to track)	0.2/0.4 ms (Read/Write)
Average:	4.0/4.5 ms (Read/Write)
Maximum:	8.0/9.0 ms (Read/Write)
Rotational speed	10,000 RPM
Buffer size	8MB
Front panel activity LED	Green LED blinks for disk I/O activity
Environmental Conditions	
Operating Temperature	5°C to +55°C
Storage Temperature	-40°C to +70°C
Relative Humidity	5%-95% (Operating)
Power typical	<6.6 W (typical)

Ordering Information:

SB-AMC42M146

Base Part Number	Front Panel Height Designation	Drive Size Giga Byte (GB)
SB-AMC42	M= mid	146
	F= full	300

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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