



### KEY FEATURES

- 2.5 inch SAS drive with Expansion
- AMC.1 and AMC.3 compliance
- PCIe x4
- RAID 0, 1 capable
- Single-width, mid-height (full-height option available)
- Heat plate on drive electronics w/ thermal pad optimizes heat removal
- Disk RPM @ 10,025RPM
- IPMI 2.0 compliant
- RoHS compliant

The AMC606 is a 2.5" SAS hard disk drive in a single-width, mid-height AdvancedMC™ (AMC) form factor based on the AMC.1 and AMC.3 specification. With a storage capacity of 300 GB and data transfer rates of 3Gbps the AMC606 is the ideal AdvancedMC™ storage module for systems that need the SAS performance without having the SAS controller on the base board.

The Module allows SAS capability and expansion to other AMC modules for storage expansion and redundancy. The front I-Pass connector allows expansion to another AMC606 or other SAS devices.

The AMC606 has a unique mechanical design to position the drive electronics in contact with a thermal pad to ensure optimal heat dissipation through the heat plate. Furthermore, the PCB is completely cut-away under the disk to allow airflow over the top of the drive.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

**AdvancedMC™**

# AMC 2.5" SAS Drive with Expansion

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Mid-Height (with Full-Height option)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Product Type	AMC Storage	2.5" SAS Drive
		Optional Solid State Disk Drive (Contact Sales for capacity and availability)
		10,025 RPM, < 4.5 ms average seek time
		Up to 146 Gbyte hard drive capacity
		3Gbps transfer rate
Standards		
AMC	Type	AMC.1 PCIe x4 Lanes
		AMC.3
Module Management	IPMI	IPMI Version 2.0
Configuration		
Power	AMC606	7W idle with the disk
Environmental	Temperature	Operating Temperature: 5° to 60° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +70° C with the Disk
	Vibration	Operating 0.6mm (5 to 20Hz) / 1.0 G (20 to 300 Hz)
	Shock	Operating 100 G max. (1ms)
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	Interface	I-Pass
	LEDs	IPMI Management Control
		Activity
Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	1,400,000 POH	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Compliance	RoHS and NEBS	
Warranty	Two (2) years	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

# AMC 2.5" SAS Drive with Expansion

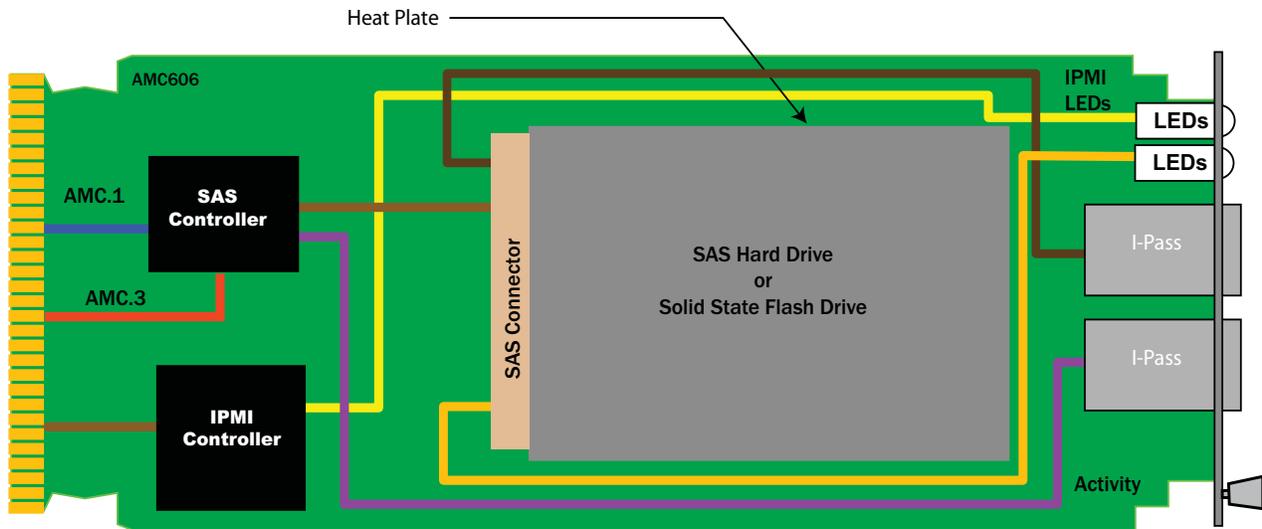


FIGURE 1. AMC606 Functional Block Diagram

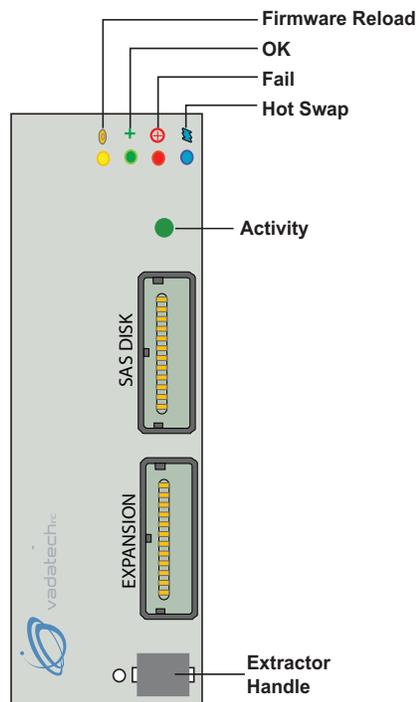


FIGURE 2. AMC606 Front Panel

## ORDERING OPTIONS

### A = SAS Drive Capacity

- 0 = None
- 1 = None
- 2 = None
- 3 = 146 GB
- 4 = 300 GB
- 5 = Reserved
- 6 = Reserved
- 7 = 160GB SSD
- 8 = 256GB SSD
- 9 = 2.5" Solid State Drive (SSD) Reserved  
(Contact sales for availability)

### B = AMC.1 and AMC.3 option

- 1 = AMC.1
- 2 = AMC.1 and AMC.3

### C = Front Panel Height

- 1 = Reserved
- 2 = Mid-Height
- 3 = Full-Height

\*Available for the SSD option only

## AMC606 - ABC - D00 - 00J

### D = Temp

- 1 = Extended  
Temperature Range\*  
(-20° C to +80° C)
- 2 = Standard  
Temperature Range  
(0° C to +60° C)

### J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

