

### KEY FEATURES

- 1.8 inch SATA 6.0 Gb/s drive HBA (Host Bus Adapter)
- AMC.1 PCIe x2 (Gen2)
- Support two SATA Disk on a single AMC module
- Independent disk or RAID 0, 1 and 10
- Single-width, mid height (full- height options available).
- IPMI 2.0 compliant
- RoHS compliant

The AMC622 is VadaTech second generation storage product for a 1.8" SATA disk drive in a single-width, mid-height AdvancedMC™ (AMC) form factor based on the AMC.1, specification. Drives can be SSD or Rotary with 6Gb/s SATA. It also supports SATA mix Flash/Rotary disks with encryption.

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

**AdvancedMC™**

# AMC 1.8" SATA HBA with Dual 6Gb/s Disk Drive

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width Mid-Height (Full-Height option)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Product Type	AMC Storage	Dual 1.8" Serial ATA Drive
		SATA Transfer rate of 6Gb/s
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	PCIe Gen2 x2 Lanes
Configuration		
Power	AMC622	2W without the Drive
Environmental	Temperature	Operating Temperature: 0° to 60° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +70° C with the Disk
	Vibration	SSD/Rotary Disk dependent
	Shock	SSD/Rotary Disk dependent
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI Management Control
		Activity
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
Other		
MTBF	Per MIL-217F > TBD	
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 1.8" SATA HBA with Dual 6Gb/s Disk Drive

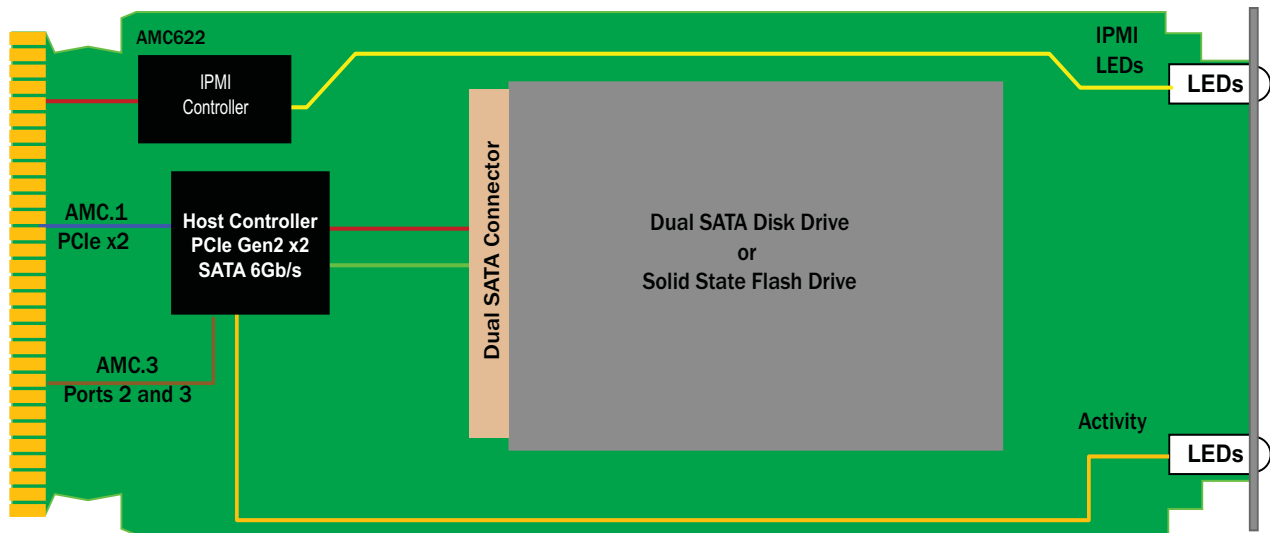


FIGURE 1. AMC622 Functional Block Diagram

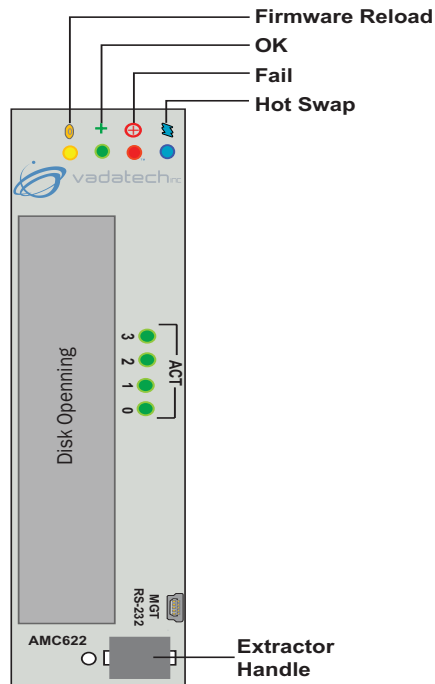


FIGURE 2. AMC622 Front Panel

# AMC 1.8" SATA HBA with Dual 6Gb/s Disk Drive

## ORDERING OPTIONS

### AMC622 - ABC - D00 - OHJ

#### A = First SATA Drive Capacity

- 0 = None
- 1 = 240GB SSD
- 2 = 360GB SSD
- 3 = 480GB SSD
- 4 = Reserved
- 5 = Reserved

(Contact sales for availability and size of larger drives)

#### B = Second SATA Drive Capacity

- 0 = None
- 1 = 240GB SSD
- 2 = 360GB SSD
- 3 = 480GB SSD
- 4 = Reserved

(Contact sales for availability and size of larger drives)

#### C = Front Panel Height

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

#### D = AMC.3 ports 2 and 3

- 0 = Not routed to the HBA
- 1 = Routed to HBA

#### H = Operating Temp

- 0 = Commercial (0° to +55°)
- 1 = Industrial (-20° to +70°)
- 2 = Military (-40° to +80°)

#### J = Conformal Coating

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