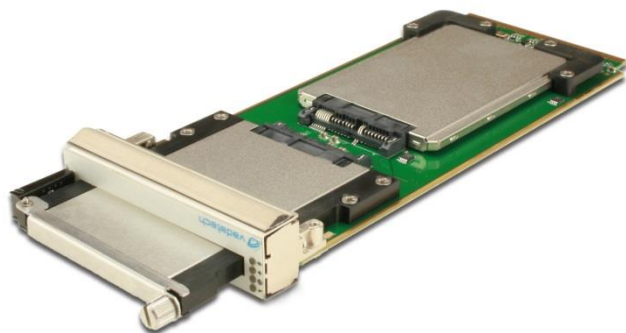


1.8" Dual SATA Drive, 6 Gbps RAID HBA – AMC622

1.8" Dual SATA Drive, HBA



KEY FEATURES

- 1.8" SATA 6.0 Gbps drive HBA (Host Bus Adapter)
- AMC.1 x2 PCIe Gen 2
- Two SATA disks on a single AMC
- Independent disk or hardware RAID 0, 1, and 10
- Single-module, compact-size (mid and full-size options available)
- IPMI 2.0 compliant
- RoHS compliant

Benefits of Choosing VadaTech

- 6 Gbps SATA drive provides twice the front-end transfer rate as previous VadaTech modules
- Removable disk drives, front drive can be removed without removing AMC
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The AMC622 is VadaTech second generation storage product for a 1.8" SATA disk drive in a single module, compact-size (mid or full-size optional) AdvancedMC™ (AMC) form factor based on the AMC.1 specification. Drives can be SSD or Rotary with 6 Gbps SATA.

The module also supports an independent disk or integrated RAID 0, 1 and 10. The front SATA drive is swappable without removing the AMC from the chassis. The rear (2nd) SATA drive is latched down with screwed braces. It can be removed with some light disassembly on the AMC.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

BLOCK DIAGRAM

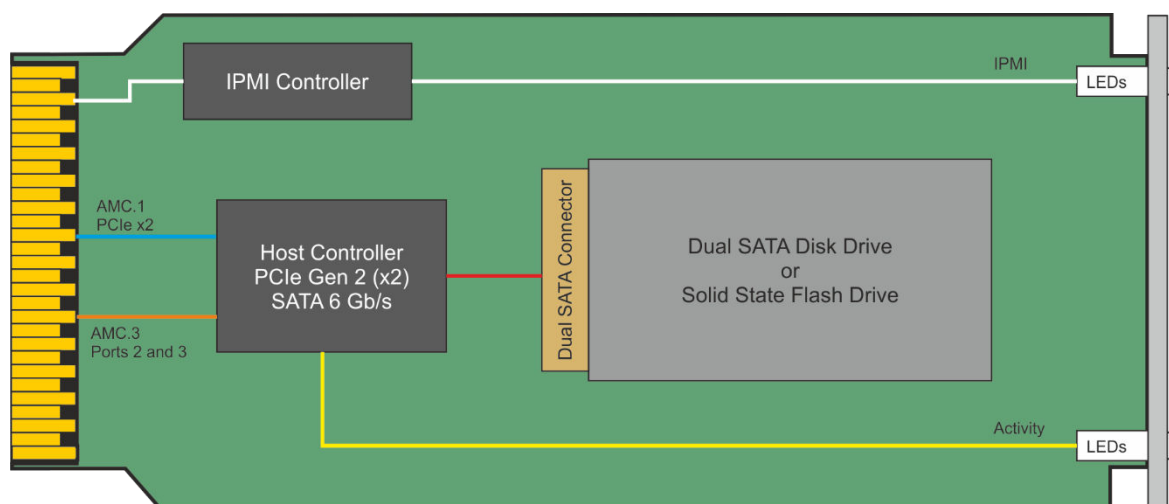


Figure 1: Block Diagram



Figure 2: Front Panel

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size option available)
		Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Type	AMC Storage	1.8" Serial ATA drive
		Optional Solid State Drive (SSD) – contact sales for availability and capacity
		SATA transfer rate of 6 Gbps
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI v2.0
PCIe	Lanes	x2 PCIe Gen 2 lanes
Configuration		
Power	AMC622	2 W without the drive
Environmental	Temperature	Operating temperature: -5° to 55° C (air flow requirement of >100 LFM), industrial and military versions also available (See environmental spec sheet)
		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
Other		
MTFB	MIL Handbook 217-F@TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Compliance	RoHS and NEBS.	
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

1.8" Dual SATA Drive, 6 Gbps RAID HBA – AMC622

ORDERING OPTIONS

AMC622 – ABC – D00 – 0HJ

A = First SATA Drive Capacity

0 = None

1 = 240 GB SSD

2 = 360 GB SSD

3 = 480 GB SSD

4 = Reserved

5 = Reserved

(Contact sales for availability and size of larger drives)

B = Second SATA Drive Capacity

0 = None

1 = 240 GB SSD

2 = 360 GB SSD

3 = 480 GB SSD

4 = Reserved

(Contact sales for availability and size of larger drives)

C = Front Panel Size

1 = Compact-size

2 = Mid-size

3 = Full-size

D = AMC.3 Ports 2 and 3

0 = Not routed to HBA

1 = Routed to HBA

H = Temperature Range*

0 = Commercial (-5 to +55° C)

1 = Industrial (-20 to +70° C)

2 = Military (-40 to +85° C)**

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic

*SSD option is required for Industrial or Military grade

** Edge of module for conduction-cooled boards

RELATED PRODUCTS



EXP100 1U Express
Development Platform



UTC002 MCH



UTC020 Power Module

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