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THE POWER OF VISION

1.8" Quad SATA Drive, 6 Gbps RAID HBA – AMC623

1.8" Quad SATA Drive, HBA

KEY FEATURES

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

Benefits of Choosing VadaTech

- 2x PCIe Gen 2 provides four times the back-end transfer rate as previous VadaTech modules
- 6 Gbps SATA drive provides twice the front-end transfer rate as previous VadaTech modules
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The AMC623 is VadaTech second generation storage product for a 1.8" SATA disk drive in a single module, mid-size or full-size AdvancedMC™ (AMC) form factor based on the AMC.1, specification.

The AMC623 supports RAID 0, 1 and 10 and can have up to 4 disks on a mid-size AMC module.

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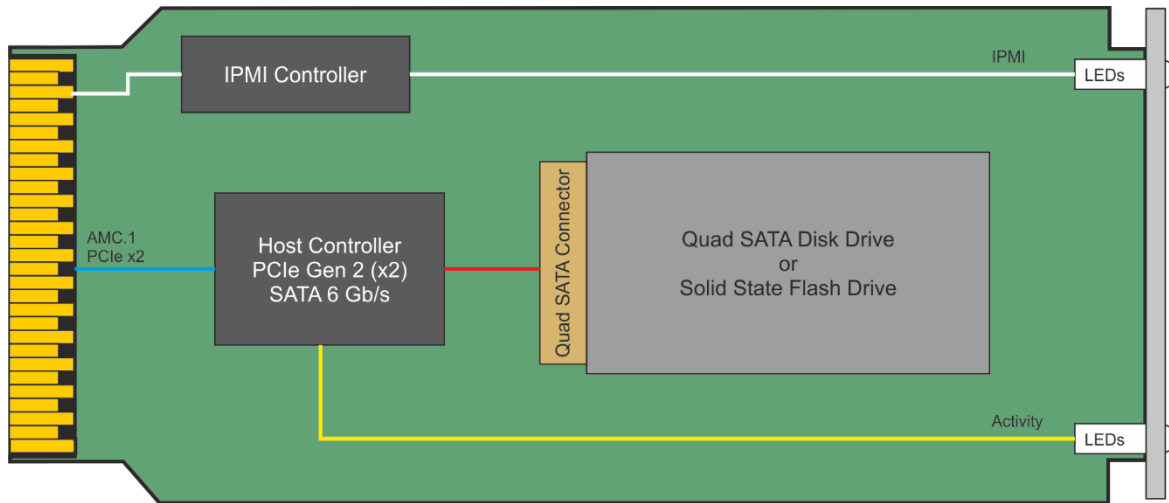
BLOCK DIAGRAM

Figure 1: Block Diagram

Figure 2: Front Panel

SPECIFICATIONS

Architecture			
Physical	Dimensions	Single module, mid-size (full-size optional)	
		Width: 2.89" (73.5 mm)	
		Depth: 7.11" (180.6 mm)	
Type	AMC Storage	1.8" Serial ATA drive	
		Quad SATA drives	
		SATA transfer rate of 6 Gbps	

Standards			
AMC	Type	AMC.1	
Module Management	IPMI	IPMI v2.0	
PCIe	Lanes	2x PCIe Gen 2 lanes	

Configuration			
Power	AMC623	2 W without the drive	
Environmental	Temperature	Operating temperature: -5° to 55° C (air flow requirement of >200 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

ORDERING OPTIONS

AMC623 – ABC – DE0 – 0HJ

A = SATA Drive Capacity Disk 1
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 = SATA Drive Capacity Disk 2
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)

C = Front Panel Size
1 = Reserved
2 = Mid-size
3 = Full-size

D = Third 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)

E = Fourth 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)

* Edge of module for conduction-cooled boards

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

RELATED PRODUCTS

EXP100 1U Express Development Platform

UTC002 MCH

UTC020 Power Module

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