

2.5" Dual SATA Drive, 6 Gbps RAID HBA – AMC621

2.5" Dual SATA Drive, HBA



KEY FEATURES

- 2.5" SATA 6.0 Gbps drive HBA (Host Bus Adapter)
- AMC.1 x2 PCIe Gen 2
- Supports two SATA disks on a single AMC module
- Independent disk or hardware RAID 0, 1 and 10
- Single module, full-size
- IPMI 2.0 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 AMC621 is VadaTech second generation storage product for a 2.5" SATA disk drive in a single module, full-size AdvancedMC™ (AMC) form factor based on the AMC.1, specification. Dual SATA disks or solid state Flash drives can be implemented on the module.

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

BLOCK DIAGRAM

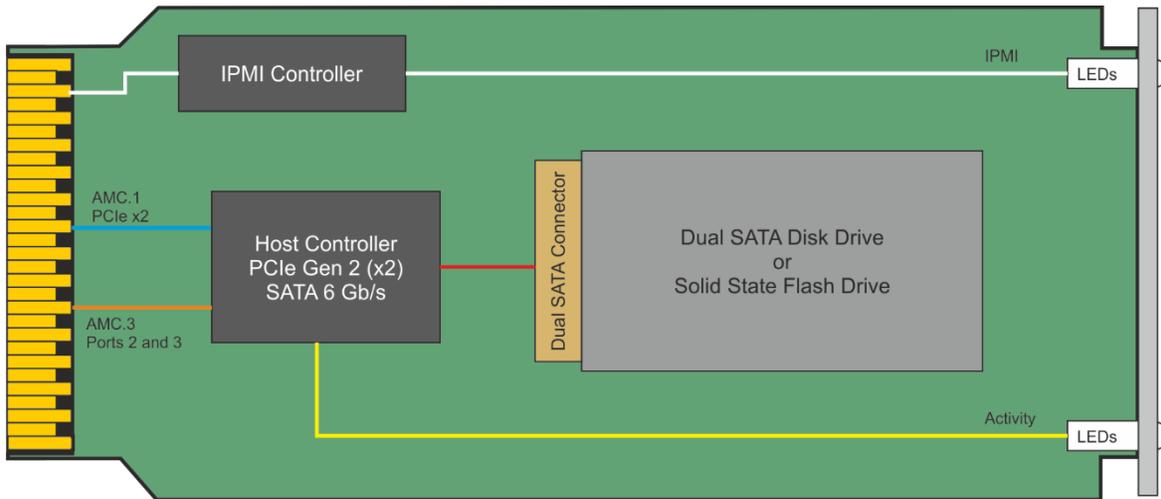


Figure 1: Block Diagram



Figure 2: Front Panel

SPECIFICATIONS

Architecture			
Physical	Dimensions	Single module, full-size	
		Width: 2.89" (73.5 mm)	
		Depth: 7.11" (180.6 mm)	
Type	AMC Storage	2.5" Dual Serial ATA drive	
		Optional Solid State Drive (SSD) – contact sales for availability and capacity	
		7200 RPM, <11 ms average seek time	
		Over 2 TB hard drive capacity per disk, 64 Mbyte buffer	
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	AMC621	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	SD/Rotary disk dependent
Front Panel	Relative Humidity	5 to 95 percent, non-condensing	
	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		
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ORDERING OPTIONS

AMC621 – ABC – D00 – 0HJ

A = SATA Drive Capacity Disk 1

- 0 = None
- 1 = 1 TB
- 2 = 2 TB
- 3 = Reserved
- 4 = Reserved
- 5 = 2.5" Solid State Drive (SSD) or mixed flash/rotary with encryption (Contact sales for availability and size)

B = SATA Drive Capacity Disk 2

- 0 = None
- 1 = 1 TB
- 2 = 2 TB
- 3 = Reserved
- 4 = Reserved
- 5 = 2.5" Solid State Drive (SSD) or mixed flash/rotary with encryption (Contact sales for availability and size)

C = Front Panel Height

- 1 = Reserved
- 2 = Reserved
- 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

* Available with the SSD option only

RELATED PRODUCTS



EXP100 1U Express
Development Platform



UTC002 MCH



UTC020 Power Module

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