

2.5" SATA Drive, 6 Gbps RAID HBA – AMC620

2.5" SATA 6 Gbps HBA



KEY FEATURES

- 2.5" SATA 6.0 Gbps drive HBA (Host Bus Adapter)
- AMC.1 x2 PCIe Gen 2
- Supports SATA ports at 6.0 Gbps
- Single Mini-SAS SFF-8644 for expansion to external devices
- Independent disk or RAID 0, 1 and 10
- Single module, compact-size (mid-size, full-size options available)
- 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 AMC620 is VadaTech second generation storage product for a 2.5" SATA disk drive in a single module, compact-size AdvancedMC™ (AMC) form factor to AMC.1. The module provides 4x the back-end transfer rate and 2x the front-end rate than previous VadaTech SATA AMCs.

Drives can be SSD or Rotary with 6 Gbps SATA. It also supports SATA mix Flash/Rotary disks with encryption. The AMC620 also has a PCIe expansion connector on the front panel for expansion to an external JBOD or other VadaTech AMC storage modules.

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

BLOCK DIAGRAM

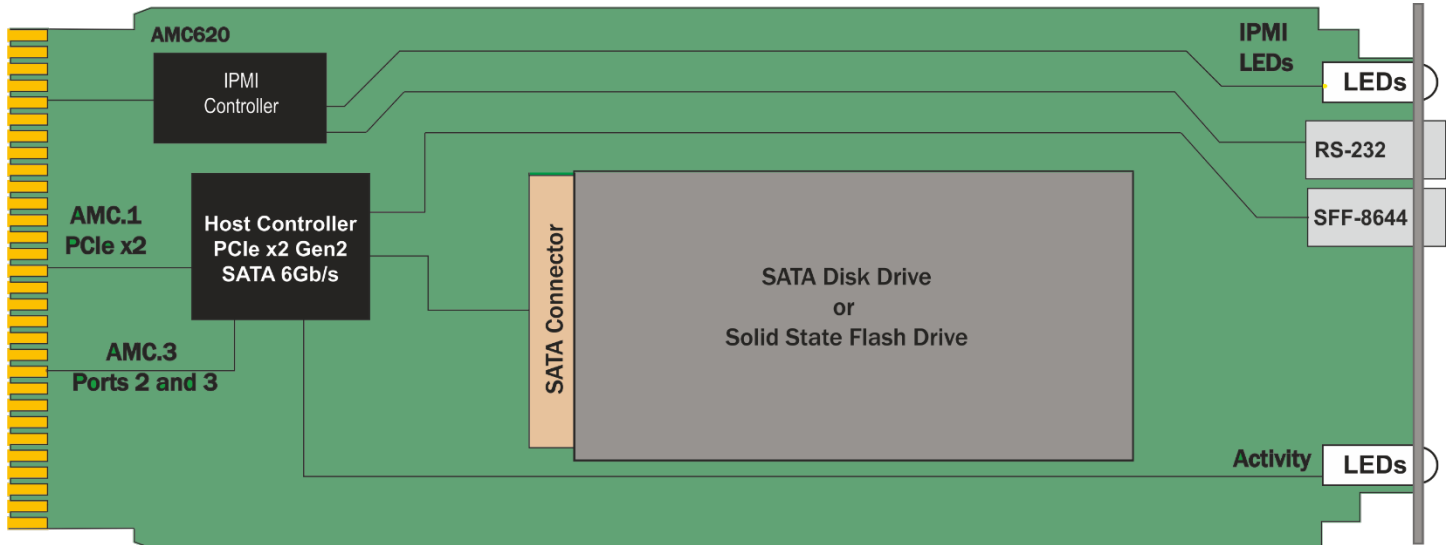


Figure 1: Block Diagram



Figure 2: Front Panel

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, compact-size (mid-size or full-size options)
		Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Type	AMC Storage	2.5" 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, 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	AMC620	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
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI management control
	Interface	Single Mini-SAS SFF-8644 x4
		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

AMC620 – A0C – D00 – 0HJ

A = SATA Drive Capacity

- 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 Size

- 1 = Compact-size
- 2 = Mid-size
- 3 = Full-size

*SSD option is required for Industrial or Military grade

** Edge of module for conduction-cooled boards

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

RELATED PRODUCTS



EXP100 1U Express
Development Platform



UTC002 MCH



UTC020 Power Module

CONTACT US

VadaTech Corporate Office

198 N. Gibson Rd.
Henderson, NV 89014
Email: info@vadatech.com
Telephone: +1 702 896-3337
Fax: +1 702 896-0332

Asia Pacific Sales Office

7th Floor, No. 2, Wenhui Street, Neihu District, Taipei
City, Taiwan 11445
Email: info@vadatech.com
Telephone: +886-2-2627-7655
Fax: +886-2-2627-7792

VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way,
Ocean Village, Southampton, SO14 3JZ
Email: info@vadatech.com
Telephone: +44 2380 381982
Fax: +44 2380 381983