2.5" SATA III/SAS-3 Drive, 12 Gbps RAID HBA – AMC627

2.5" SATA III/SAS-3 Drive, HBA

KEY FEATURES

- Host Bus Adapter (HBA) for 2.5 inch disk with SATA III (6.0 Gbps) or SAS-3 (12 Gbps)
- AMC.1 compliant
- PCIe Gen3 x4 lanes
- Independent disk or hardware RAID 0, 1, 1E and 10
- AMC mid-size (full-size options available).
- IPMI 2.0 compliant
- RoHS compliant

Benefits of Choosing VadaTech

PCIe Gen 3 provides four times the back-end transfer rate as previous VadaTech modules

6 Gbps SATA III drive provides twice the front-end transfer rate, 12 Gbps SAS-3 option

Design utilizes proven VadaTech subcomponents and engineering techniques

Electrical, mechanical, software, and system-level expertise in house

AS9100 and ISO9001 certified company

The AMC627 is VadaTech second generation storage product HBA single module, mid-size (option for full-size) AdvancedMC™ (AMC) form factor based on the AMC.1 specification.

The module has an on-board 2.5" disk with additional SATA/SAS ports routed to ports 2-3. The storage module also has hardware RAID 0 (striping), 1 (mirroring), 1E (enhanced mirroring), and 10 (mirroring + striping).

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

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.
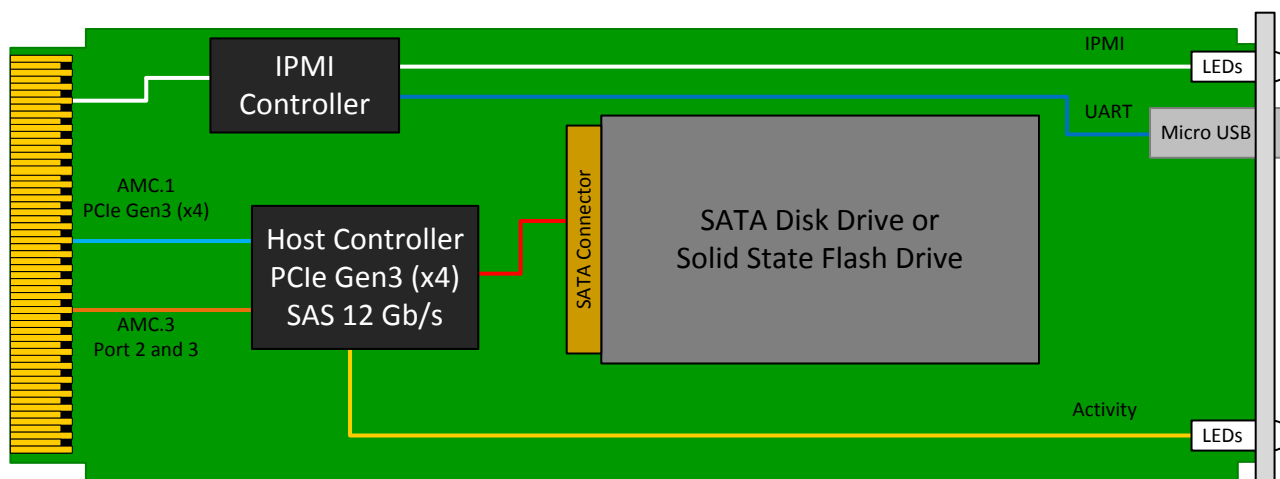
BLOCK DIAGRAM

Figure 1: Block Diagram

Figure 2: Front Panel

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size option available)
		Width 2.89 in. (73.5 mm)
		Depth 7.11 in. (180.6 mm)
Type	AMC Storage	SAS-3 transfer rate at 12 Gbps, SATA III transfer rate at 6 Gbps
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI version 2.0
PCIe	Lanes	PCIe Gen3, x4
Configuration		
Power	AMC627	8W
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 +85° C
	Vibration	SSD/Rotary disk dependent
	Shock	SSD/Rotary disk dependent
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI management, Activity, Host Controller UART interface via MicroUSB
	Mechanical	Hot-swap ejector handle
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
Other		
MTFB	MIL Hand book 217-F @ TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
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	

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ORDERING OPTIONS

AMC627 – 0BC – D00 – 0HJ

D = AMC Ports 2 and 3
0 = Not routed to the HBA
1 = Routed to the HBA

B = SAS Drive Capacity
0 = None
1 = 400 GB (SSD)
2 = 800 GB (SSD)
3 = Reserved
4 = 2.5" Rotary and other SAS/SATA size**

H = Operating Temperature
0 = Commercial (-5° to +55° C)
1 = Industrial (–20° to +70° C)
2 = Military (–40° to +80° C)*

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

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

* Edge of module for conduction-cooled
** Contact VadaTech Sales for more information

RELATED PRODUCTS

**EXP100 Express
Chassis Platform**

MCH002 MCH

**UTC020 1000W
DC Power Module**

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