

## 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

**AdvancedMC™**

### 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.*

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

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and  $\mu$ TCA 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

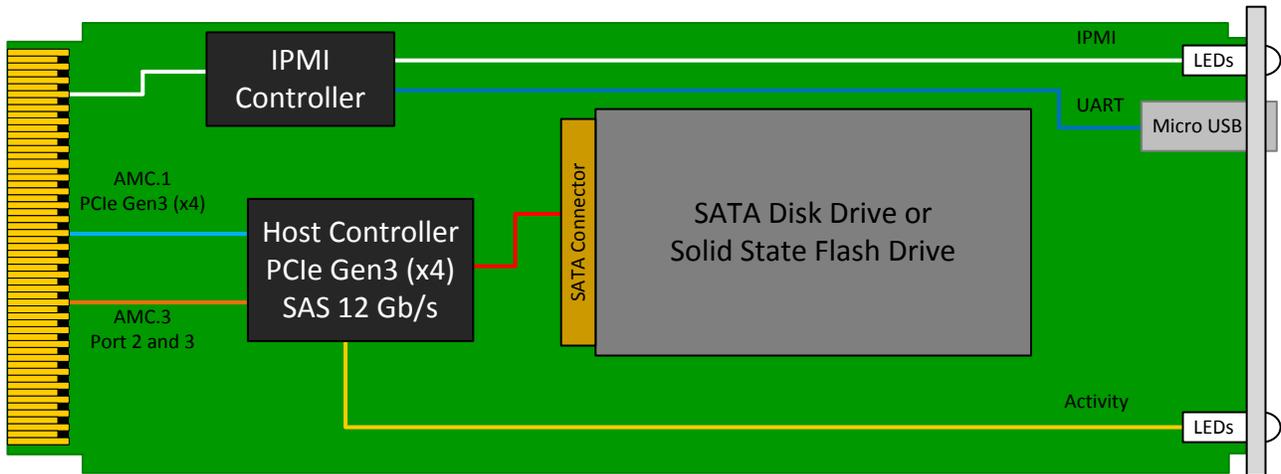


Figure 1: Block Diagram



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 <a href="#">environmental spec sheet</a> ) 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

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

## ORDERING OPTIONS

### AMC627 – OBC – D00 – 0HJ

#### 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\*\*

#### C = Front Panel Size

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

\* Edge of module for conduction-cooled

\*\* Contact VadaTech Sales for more information

#### D = AMC Ports 2 and 3

- 0 = Not routed to the HBA
- 1 = Routed to the HBA

#### H = Operating Temperature

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

#### J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

## RELATED PRODUCTS



EXP100 Express  
Chassis Platform



MCH002 MCH



UTC020 1000W  
DC Power Module

## CONTACT US

#### VadaTech Corporate Office

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

#### Asia Pacific Sales Office

7 Floor, No. 2, Wenhui Street, Neihu District,  
Taipei 114, Taiwan  
Email: [info@vadatech.com](mailto: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](mailto:info@vadatech.com)  
Telephone: +44 2380 381982  
Fax: +44 2380 381983