

AMC630 – 1.8" Quad SATA Drive RAID HBA

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
- Four SATA disks on a single AMC
- Independent disk or hardware RAID 0, 1, and 10
- Double-module, compact-size (mid and full-size options available)
- IPMI 2.0 compliant
- RoHS compliant

AdvancedMC™

Benefits of Choosing VadaTech

- 6 Gbps SATA drive provides twice the front-end transfer rate as the previous generation of VadaTech modules
- Removable disk drives, front drives can be removed without removing the AMC
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The AMC630 is VadaTech second generation storage product for a 1.8" SATA disk drive in a double module, compact-size (mid or full-size optional) AdvancedMC™ (AMC) form factor based on the AMC.1 specification. Drives can be SSD or rotary with 6 Gbps SATA.

The module also supports an independent disk or integrated RAID 0, 1 and 10. The front SATA drives are swappable without removing the AMC from the chassis. The rear (3rd and 4th) SATA drives are latched down with screwed braces. They can be removed with some light disassembly of the AMC.

BLOCK DIAGRAM

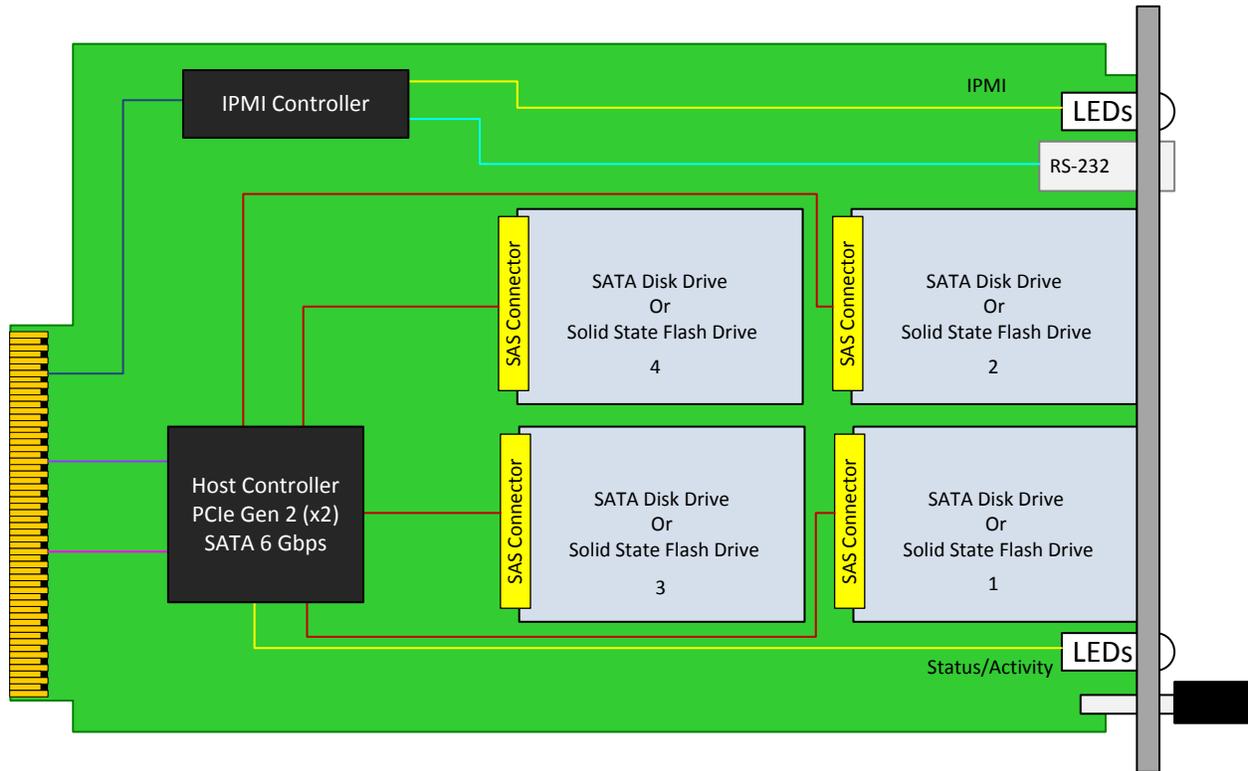


Figure 1: Block Diagram

FRONT PANEL

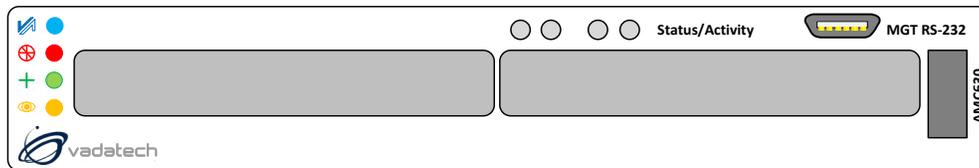


Figure 2: Front Panel

SPECIFICATIONS

Architecture

Physical	Dimensions	Double module, compact-size (mid-size and full-size options available) Width: 5.85" (148.5 mm) Depth: 7.11" (180.6 mm)
Type	AMC Storage	1.8" Serial ATA drive Optional Solid State Drive (SSD) – contact sales for availability and capacity SATA transfer rate of 6 Gbps

Standards

AMC	Type	AMC.1
Module Management	IPMI	IPMI v2.0
PCIe	Lanes	x2 PCIe Gen 2 lanes

Configuration

Power	AMC630	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	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

MTBF	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

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and μ 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.

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ORDERING OPTIONS

AMC630 – ABC – DE0 – 0HJ

A = First SATA Drive Capacity*

- 0 = None
- 1 = 240 GB SSD
- 2 = 360 GB SSD
- 3 = 480 GB SSD
- 4 = 1 TB SSD
- 5 = Reserved

B = Second SATA Drive Capacity*

- 0 = None
- 1 = 240 GB SSD
- 2 = 360 GB SSD
- 3 = 480 GB SSD
- 4 = 1 TB SSD
- 5 = Reserved

C = Front Panel Size

- 1 = Compact-size
- 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 = 1 TB SSD
- 5 = Reserved

E = Forth SATA Drive Capacity*

- 0 = None
- 1 = 240 GB SSD
- 2 = 360 GB SSD
- 3 = 480 GB SSD
- 4 = 1 TB SSD
- 5 = Reserved

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

* Contact sales for availability and size of larger drives

** SSD option is required for Industrial or Military grade

*** Edge of module for conduction-cooled boards

RELATED PRODUCTS



EXP100 1U Express
Development Platform



UTC002 MCH



UTC020 Power Module

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