AMC626

Integrated RAID, Expansion w/HBA, AMC

AMC626

Key Features

- Host Bus Adapter (HBA) for external SATA III (6.0 Gbps) or SAS-3 (12 Gbps) drives
- AMC.1 compliant, PCIe Gen3 x8 or x4
- Support for 8 SAS/SATA ports
- Dual expansion ports to external devices
- Integrated RAID 0, 1, 1E, and 10
- Single module, mid-size (full-size options available)

Benefits

- PCIe Gen3 provides four times the back-end transfer rate as previous VadaTech modules
- Fault tolerant data storage
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house

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The AMC626 is an integrated RAID with a Host Bus Adapter for external SATA III or SAS-3 drives. AMC.1 compliant, the AMC module routes PCIe Gen3 x8 or x4 to the backplane. The storage module has integrated RAID 0 (striping), 1 (mirroring), 1E, and 10 (mirroring and block-level striping).

Dual SFF-8644 connectors on the front panel provide dual x4 expansion to an external JBOD or other storage device (including other VadaTech storage AMCs). The AMC626 comes in the single module, mid-size. A full-size panel option is also available.
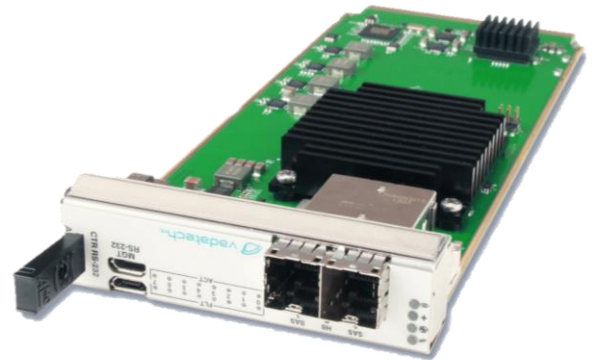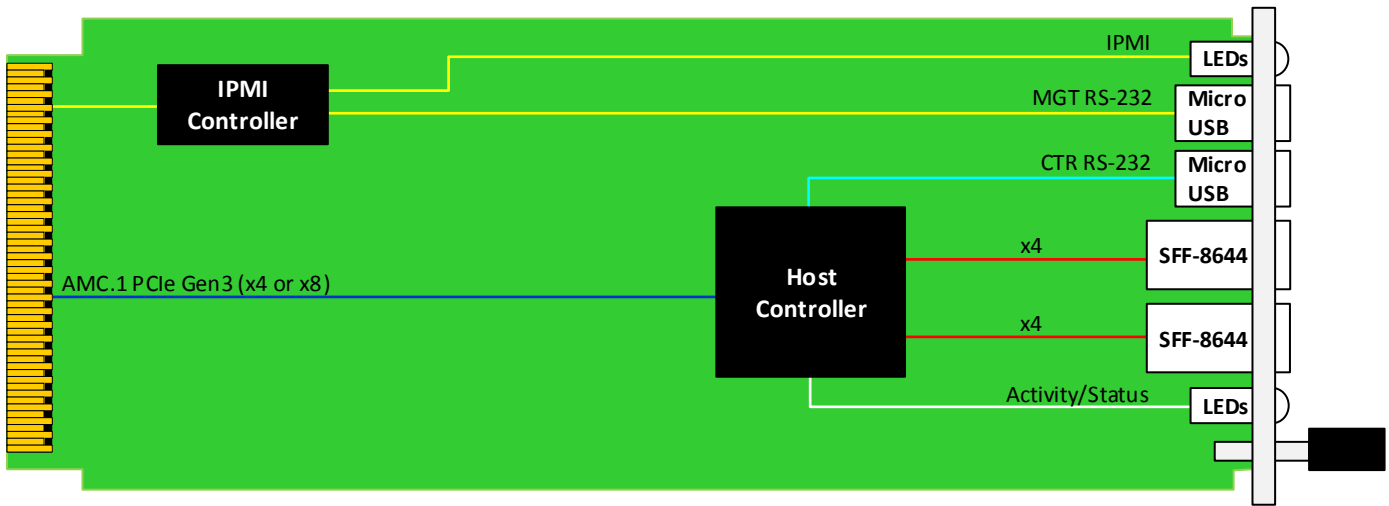

Figure 1: AMC626

Block Diagram

Figure 2: AMC626 Functional Block Diagram

Front Panel

Figure 3: AMC626 Front Panel

AMC626 – Integrated RAID, Expansion w/HBA, AMC

Specifications

Architecture		
Physical	**Dimensions**	Single module, mid-size (full-size optional)
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	**AMC Storage**	Integrated RAID (0, 1, 1E, and 10)
Standards		
AMC	**Type**	AMC.0 and AMC.1
Module Management	**IPMI**	IPMI v2.0
PCIe	**Lanes**	Gen 3 x4 or x8
Configuration		
Power	**AMC626**	7W
Environmental	**Temperature**	See ordering options and environmental spec sheet
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500 Hz on each axis
	Shock	Operating 325G/2 ms, 160G/1 ms
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	Dual SFF-8644
		Dual Micro USB (Controller RS-232 and MGT RS-232)
	LEDs	IPMI management control
		Activity and Heartbeat
	Mechanical	Hot swap ejector handle
Other		
MTBF		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

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

AMC626 – A0C-000-0HJ

A = PCIe		H = Temperature Range
1 = PCIe x4 2 = PCIe x8		
		H = Temperature Range
		0 = Commercial (-5° to +55°C) 1 = Industrial (–20° to +70°C) 2 = Extended (–40° to +80°C)*
C = Front Panel		**J = Conformal Coating**
1 = Reserved 2 = Mid-size, MTCA.0 3 = Full-size, MTCA.0 4 = Reserved 5 = Mid-size, MTCA.1 (captive screws) 6 = Full-size, MTCA.1 (captive screws)		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes: *Conduction cooled, temperature is at edge of module. Consult factory for availability

Related Products

UTC004

- Single module, full size per AMC.0
- Unified 1 GHz quad-core CPU for MCMC (MicroTCA Carrier Management Controller), Shelf Manager, Clocking, and Fabric management
- Automatic fail-over with redundant UTC004s

UTC010

- Single module, full size module per AMC.0
- Dual -36V DC to -75V DC input, 792W (available in 396W)
- Hot swappable with support for power module redundancy

VT857

- Twelve mid-size single module AMC slots or six mid-size double module AMC slots
- Cascade any number of 1U Carriers for expansion and management
- Management can run as Shelf/MicroTCA Carrier Management Controller (MCMC) or MCMC

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Contact

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