

AMC633

AMC RAID HBA, with 8 mSATA Disks



AMC633

Key Features

- Single module, mid-size per AMC.0
- AMC RAID Host Bus Adapter HBA
- Module comes with 8 mSATA Disks
- Single removable tray carries mSATA drives
- AMC.1 with PCIe Gen3 x8 or x4
- Integrated RAID 0, 1, 1E and 10
- Auto-latching of the caddy into the carrier for secure retention, push-button release

Benefits

- Multi-Terabit storage capacity in a single module AMC form factor carrier
- Removable storage for data-sensitive applications
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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AMC633

The AMC633 is an integrated RAID with removable mSATA carrier tray which allows all drives to be removed together, supporting applications where large amounts of data need to be physically moved from one equipment to another, or where sensitive (e.g. classified) data must be removed from a system.

The AMC633 caddy uses up to 8 mSATA disks to enable high speed read/write by striping across multiple disks.

The AMC633 is available in both air-cooled (MTCA.0 and MTCA.1) and rugged conduction-cooled (MTCA.2 or MTCA.3) versions.



Figure 1: AMC633

Block Diagram

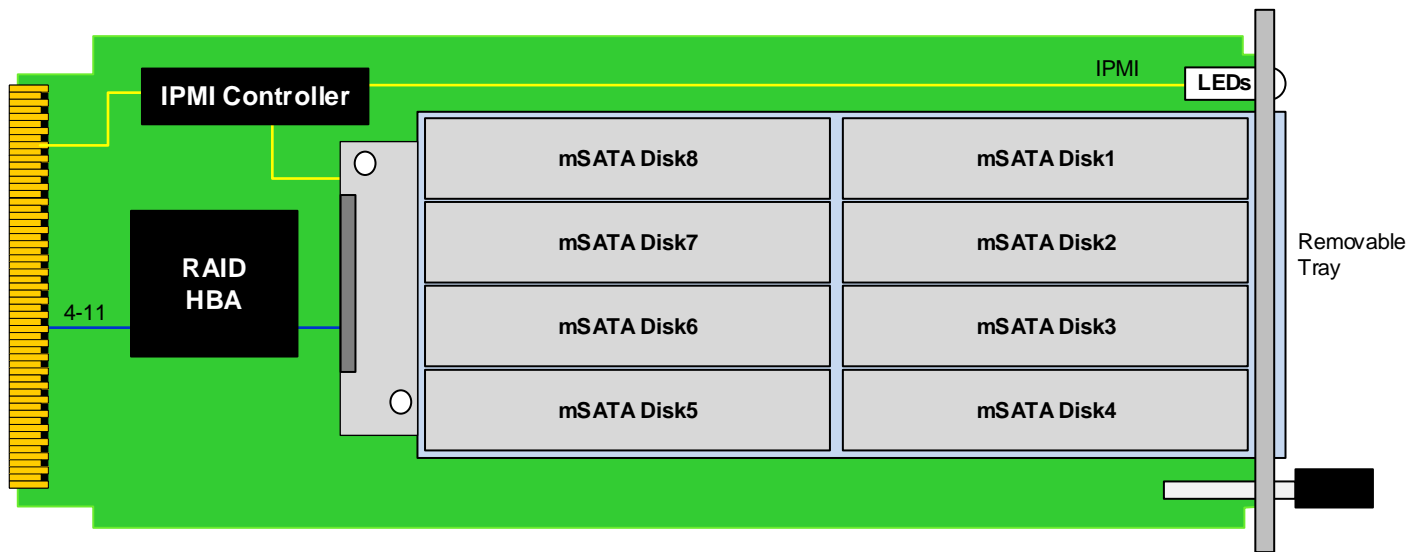


Figure 2: AMC633 Functional Block Diagram

Front Panel

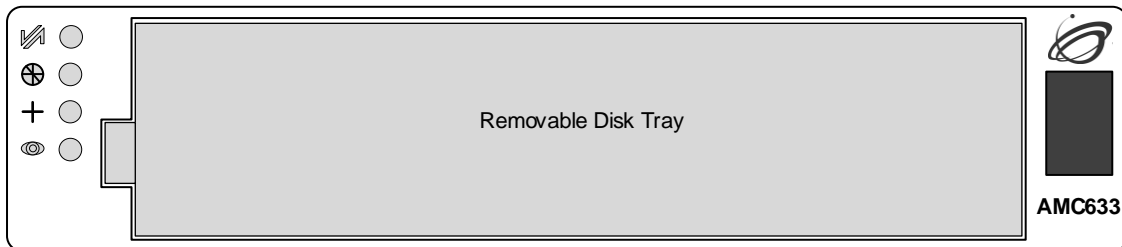


Figure 3: AMC633 Front Panel

Specifications

Architecture	
Physical	Dimensions Single Module, mid-size (full-size option available) Width: 2.89" (73.5 mm) Depth: 7.11" (180.6 mm), carrier protrudes ~1.95" from AMC front panel
Type	AMC Storage Integrated RAID (0, 1, 1E, and 10) with 8 mSATA JBOD Carrier
Standards	
AMC	Type AMC.0
Module Management	IPMI IPMI v2.0
Storage	Type Up to 8x mSATA drives
Configuration	
Power	AMC633 20W with 8 mSATA disks
Environmental	Temperature See ordering options and environmental spec sheet Storage Temperature: -40° to +85°C
	Altitude 40,000 ft non-operating
	Vibration Operating 9.8 m/s ² (1G), 5-500 Hz
	Shock Operating 325G/2 ms, 160G/1 ms
	Relative Humidity 5 to 95% non-condensing
Front Panel	LEDs IPMI management control Activity
	Mechanical Removable Tray
Software Support	Operating System Linux, Windows, Solaris and VxWorks
Other	
MTBF	MIL Hand book 217-F@ TBD hrs
Certifications	Designed to meet FCC, CE and UL certifications, where applicable
Compliance	RoHS
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

AMC633 – ABC-D00-00J

A = mSATA Disks 0 = 8 disks 1 = 4 disks 2 = Reserved	D = PCIe 1 = PCIe x4 2 = PCIe x8	
B = mSATA Disk Capacity 0 = 256 GB/disk 1 = 512 GB/disk 2 = 1 TB/disk 3 = Reserved		
C = Front Panel Size 1 = Reserved 2 = Mid-size 3 = Full-size 4 = Reserved 5 = Mid-size, MTCA.1 (captive screw) 6 = Full-size, MTCA.1 (captive screw)		J = Temperature Range and Coating 0 = Commercial (–5° to +45°C), No coating 1 = Commercial (–5° to +45°C), Humiseal 1A33 Polyurethane 2 = Commercial (–5° to +45°C), Humiseal 1B31 Acrylic 3 = Reserved 4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic 6 = Reserved 7 = Reserved

Related Products

AMC626



- 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

AMC629



- Single module, mid-size per AMC.0
- Integrated RAID 0, 1, 1E, and 10
- PCIe Gen3 x8 or x4 on ports 4-11, AMC.1 compliant

VT950



- Compliant to MIL-STD-810F, MIL-STD-901D for shock/vibration
- Compliant to MIL-STD-461E for EMI
- Supports up to six single mid-size modules

Contact

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