

## AMC633 – AMC RAID HBA, with 8 mSATA Disks

8 mSATA JBOD Carrier



### KEY FEATURES

- 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
- Conduction cooled version available
- Single module, mid-size per AMC.0
- Auto-latching of the caddy into the carrier for secure retention, push-button release
- IPMI 2.0 compliant

**AdvancedMC™**

### Benefits of Choosing VadaTech

- Multi-Terabit storage capacity in a single module AMC form factor carrier
- Removable storage for data-sensitive applications
- RAID 0,1,10, 10E
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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 allows up to 8mSATA disk to allow 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.

## BLOCK DIAGRAM

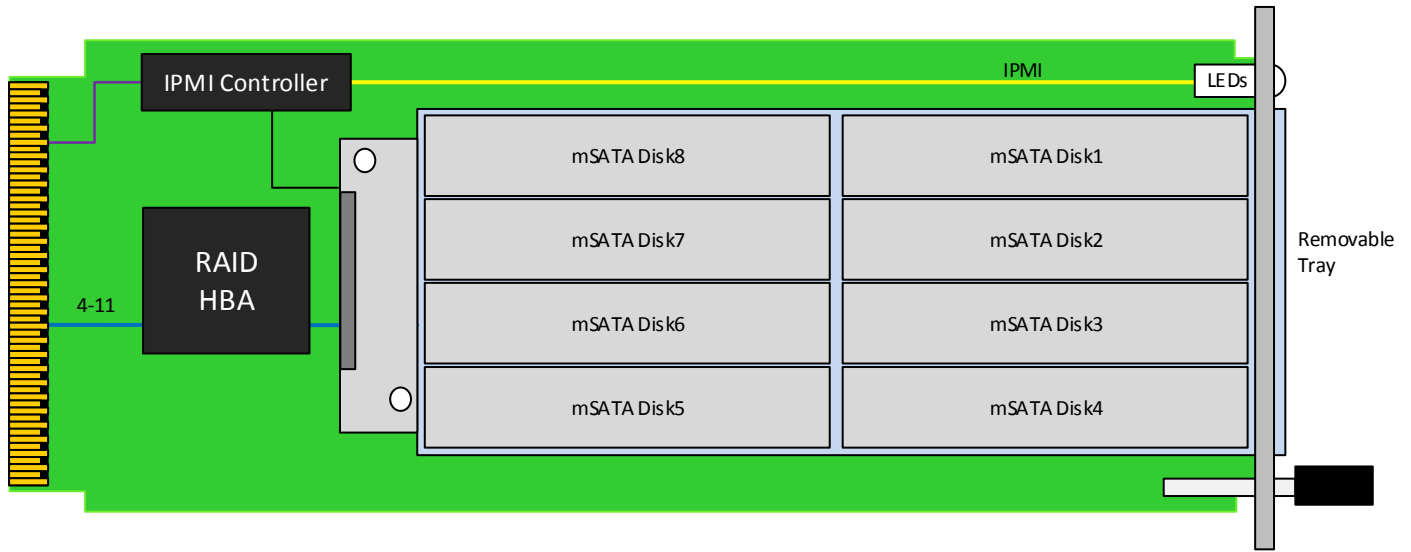


Figure 1: AMC633 Block Diagram

## FRONT PANEL

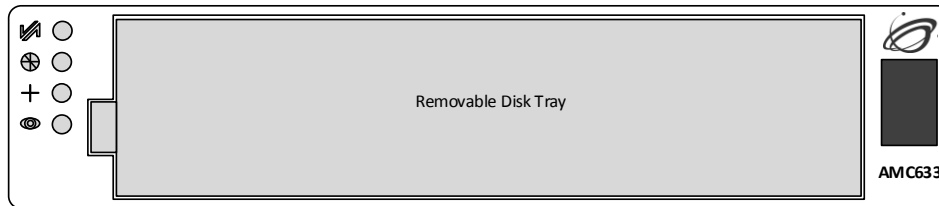


Figure 2: AMC633 Front Panel with Removable Disk Tray

## 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 Version 2.0
Storage	Type	Up to 8x Mini-SATA drives
Configuration		
Power	AMC633	20 W with 8 mSATA disks
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial version also available (See <a href="#">environmental spec sheet</a> ) Storage temperature: -40° to +85° C with the disk
	Vibration	Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz
	Shock	Operating 325G/2 ms, 160G/1 ms
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI management control Activity
	Mechanical	Removable Tray
Software Support	Operating System	Linux, Windows, Solaris and VxWorks
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  $\mu$ 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.

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# AMC633 – AMC RAID HBA, with 8 mSATA Disks

## ORDERING OPTIONS

### AMC633 – ABC – D00 – 00J

#### A = mSATA Disks

- 0 = 8 disks
- 1 = 4 disks
- 2 = Reserved

#### 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)

#### D = PCIe

- 1 = PCIe x 4
- 2 = PCIe x 8

#### 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



VT950 1U  
Rugged Chassis



AMC626 Integrated  
RAID Storage AMC



AMC629  
Integrated RAID w/HBA

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