

AMC635 / AMC635C – AMC Carrier for JBOD, 8 mSATA Disks

8 mSATA JBOD Carrier



KEY FEATURES

- JBOD Carrier Module for 8 Mini-SATA (mSATA) disks
- Single removable tray carries mSATA drives
- 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
- Fully compatible with HBA/RAID controller AMC629
- Strong mil/aero support
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

The removable mSATA carrier tray on the AMC635 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 unit is fully compatible with the AMC629 RAID controller so can support fault-tolerant storage.

Multiple AMC635 units can be 'daisy chained' within a system (depending on backplane capabilities) supporting large scale storage systems. The on-board expander enables 12 Gbps aggregate performance with 6 Gbps (SATA) devices. It includes an integrated ARM Cortex-R4 processor for topology management functions for efficiency.

The AMC635 is available in both air-cooled (MTCA.0 and MTCA.1) and rugged conduction-cooled (MTCA.2 or MTCA.3) versions.

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AMC635

BLOCK DIAGRAM

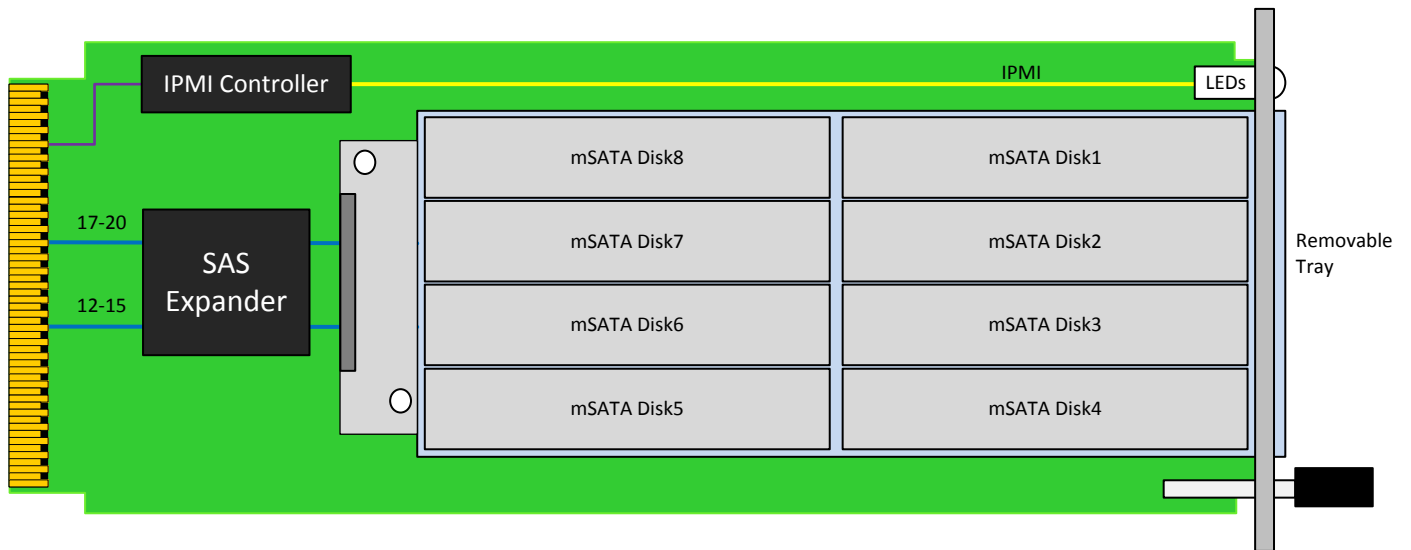


Figure 1: AMC635 Block Diagram

FRONT PANEL

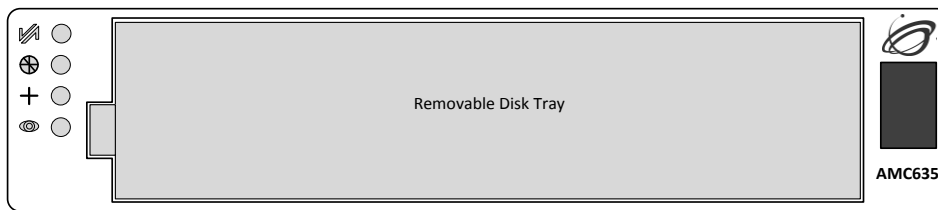


Figure 2: AMC635 Front Panel with Removable Disk Tray

AMC635C

BLOCK DIAGRAM

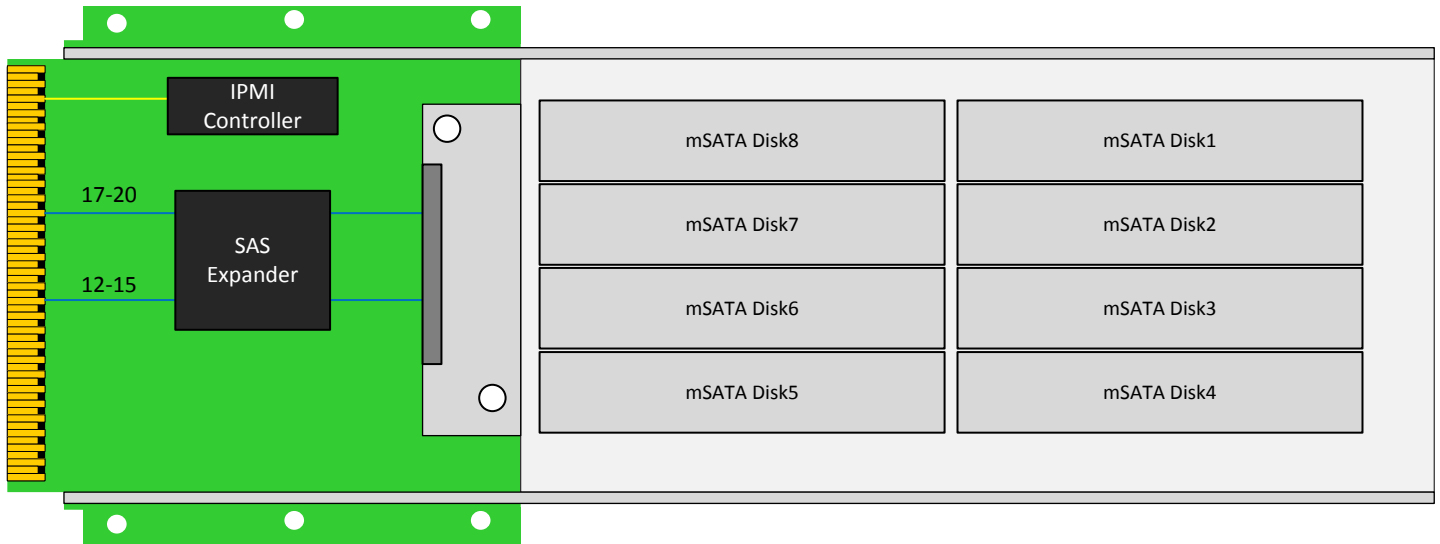


Figure 3: AMC635C Block Diagram

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	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	AMC635	10 W (drive tray removed)
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet)
		Storage temperature: -40° to +85° C with the disk
	Vibration	Operating 9.8 m/s ² (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	Hot swap ejector handle (AMC635); Wedgelocks (AMC635C); 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 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

AMC635 – ABC – 000 – 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)

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

AMC635C – ABC – 000 – 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 = Ruggedization Level*

- 0 = None
- 1 = Contact Vadatech
- 2 = Contact Vadatech
- 3 = Contact Vadatech

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

*Ruggedization level is per the uTCA.2 and uTCA.3 specification

** Edge of module

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RELATED PRODUCTS



**VT950 1U
Rugged Chassis**



**AMC626 Integrated
RAID Storage AMC**



**AMC629
Integrated RAID w/HBA**

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