

2.5" SAS/SATA Drive, DVI-I – AMC639

2.5" SAS/SATA, DVI-I



KEY FEATURES

- 2.5" SAS/SATA HDD
- AMC.1 and AMC.3 compliant
- x1 PCIe Gen 1
- Single module, mid-size (full-size options available)
- DVI-I for graphics interface
- 16 MB DDR Memory
- Support for 1920x1440 resolution
- IPMI 2.0 compliant

Benefits of Choosing VadaTech

- Combination of storage and graphics in single AMC
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC639 is a multi I/O adapter combining a 2.5" SAS/SATA HDD and DVI-I in a single module, mid-size AMC form factor.

The AMC639 is AMC.1 and AMC.3 compliant. The SAS/SATA signals are directly routed to the AMC connector per AMC.3. The graphics accelerator has 16 MB of DDR memory and provides resolutions of up to 1920 x 1440.

The AMC639 is also available with a Solid State Flash drive or SAS drive.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

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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.

BLOCK DIAGRAM

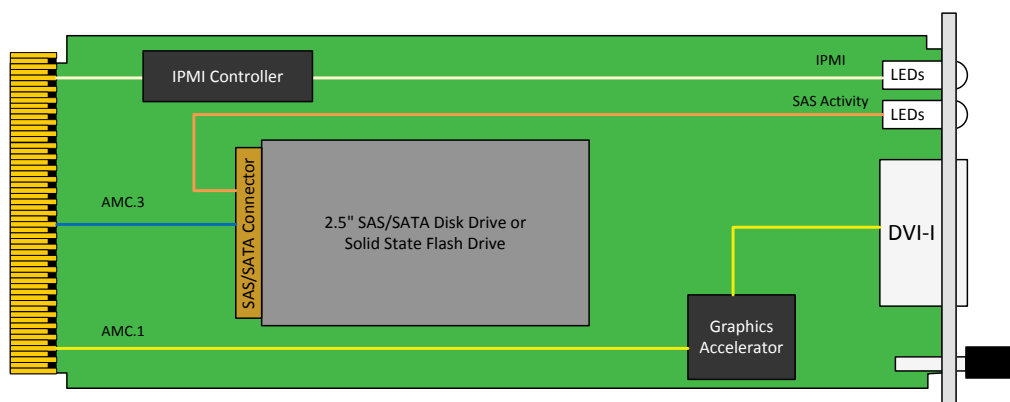


Figure 1: Block Diagram

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size option available)
		Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Type	AMC Storage	2.5" SAS/SATA drive with Graphics
		Optional Solid State Drive (SSD) – contact sales for availability and capacity
	AMC Graphics	DVI-I connector provides both the DVI as well as the VGA output
		Screen resolutions up to 1920x1440
		16 MB of DDR memory
Standards		
AMC	Type	AMC.1 and AMC.3
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	PCIe Gen 1, x1
Configuration		
Power	AMC639	~5W
Environmental	Temperature	Operating temperature: -5° to 55° C (air flow requirement of >200 LFM, 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
		SAS Activity
	Interface	DVI-I
	Mechanical	Hot swap ejector handle
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	
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ORDERING OPTIONS

AMC639 – ABC – 000 – 00J

A = SATA Drive Capacity¹

0 = None
1 = 256 GB SSD
2 = 512 GB SSD
3 = 1TB SSD
4 = Reserved
(Contact sales for other drive sizes)

B = SAS Drive Capacity¹

0 = None
1 = 400 GB (SSD)
2 = 800 GB (SSD)
3 = Reserved
4 = 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 +55° C), No coating
1 = Commercial (–5° to +55° C), Humiseal 1A33 Polyurethane
2 = Commercial (–5° to +55° C), Humiseal 1B31 Acrylic
3 = Industrial (–20° to +70° C), No coating
4 = Industrial (–20° to +70° C), Humiseal 1A33 Polyurethane
5 = Industrial (–20° to +70° C), Humiseal 1B31 Acrylic
6 = Military (–40° to +85° C), Humiseal 1A33 Polyurethane*
7 = Military (–40° to +85° C), Humiseal 1B31 Acrylic*

¹Contact Sales for availability and size of other options. Customer must order A or B, not both.

* Edge of module for conduction-cooled

RELATED PRODUCTS



**EXP100 Express
Chassis Platform**



UTC002 MCH



**UTC020 1000W
DC Power Module**

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