AMC324

Sixteen Port RS-422/485 Serial Adapter AMC

AMC324

Key Features

- Sixteen RS-422/485 serial ports using a high density connector

- x1 PCIe lane to Port 4 or Port 8, AMC.1 compliant

- Single module, compact-size (mid-size and full-size options available)

- Optional adapter cable to convert the high density connector to standard DB-9 connector, one per port

- IPMI 2.0 compliant

- RoHS compliant

Benefits

- High density connector for access to sixteen ports

- Design utilizes proven VadaTech subcomponents and engineering techniques

- Electrical, mechanical, software, and system-level expertise in house

- Full system supply from industry leader

- AS9100 and ISO9001 certified company

AdvancedMC™

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AMC324

The AMC324 provides sixteen RS-422/RS-485 ports (RX and TX) in a single module, compact-size AdvancedMC (AMC) form factor. All sixteen ports are available through the front panel with a high-density connector. VadaTech offers a breakout adapter cable to convert this high-density connector to standard DB-9 connectors. For a different front panel I/O connector, contact Sales
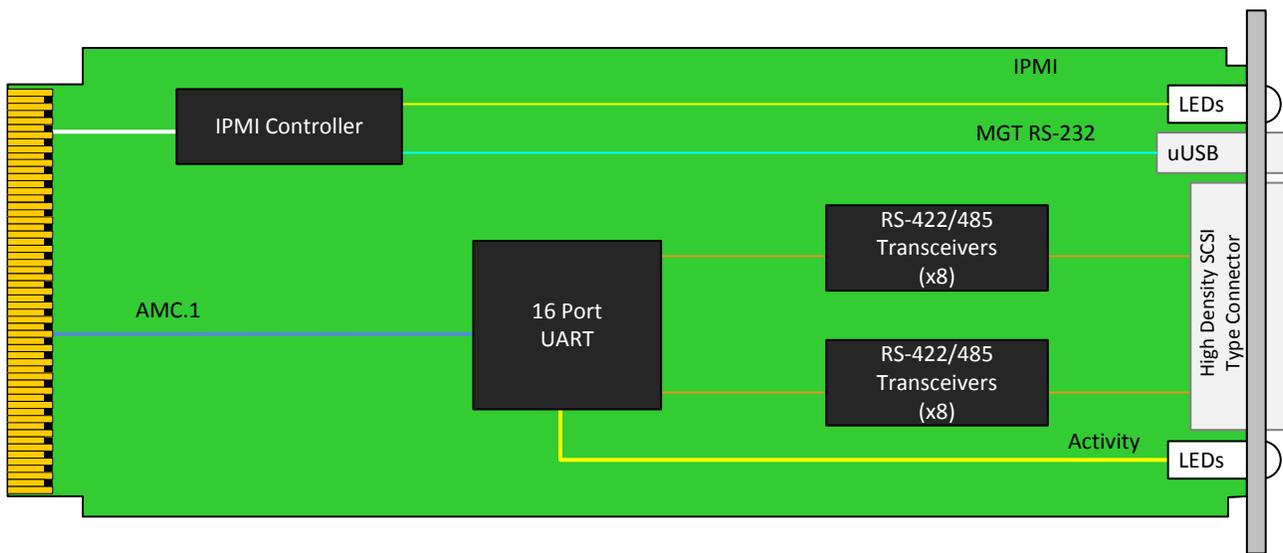
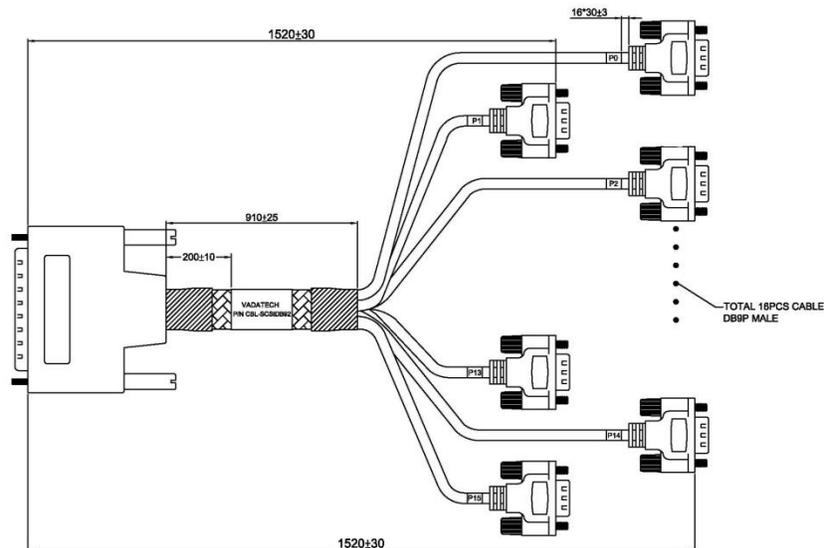## Block Diagram

Figure 1: Functional Block Diagram

Figure 2: Optional Adapter Cable

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Specifications

Architecture		
Physical	**Dimensions**	Single module, compact-size (mid and full-size optional)
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	**AMC Serial**	RS-422/485
		16 Ports with hardware support (RX, TX)

Standards		
AMC	**Type**	AMC.0 and AMC.1
Module Management	**IPMI**	IPMI version 2.0
PCIe	**Lanes**	x1

Configuration		
Power	**AMC324**	3W
Environmental	**Temperature**	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and extended versions also available (See environmental spec sheet)
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s² (1G), 5 to 500Hz on each axis
	Shock	Operating 30G on each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	**Interface Connectors**	Micro 68-pin SCSI to (16) DB9 Male connector via adapter cable
		Micro USB for IPMI RS-232
	LEDs	IPMI management control
		Activity
	Mechanical	Hot swap ejector handle
Software Support	**Operating System**	Linux and Windows
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)

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 ATCA and µTCA 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

AMC324 – ABC-000-00J

A = Front Panel Interface		
1 = With Adapter Cable 2 = Without Adapter Cable		

B = PCIe Routing		
0 = Port 4 1 = Port 8		

C = Front Panel		J = Temperature Range and Coating
1 = Compact-size 2 = Mid-size 3 = Full-size 4 = Compact-size, MTCA.1 (captive screw) 5 = Mid-size, MTCA.1 (captive screw) 6 = Full-size, MTCA.1 (captive screw)		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*

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

Related Products

UTC004

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

AMC720

- Intel® Xeon™ E3 processor
- Conduction cooled version available
- Single module, mid-size per AMC.0

UTC010

- Dual -36 to -75 VDC input,
- 792W (available in 396W)
- Hot swappable with support for power module redundancy

Contact

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