AMC Eight Port RS-422/485 Serial Adapter

AMC320

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KEY FEATURES

- AMC.1 compliant
- Single-width, half-height (mid-height and full-height options available)
- PCIe x4 lanes
- Eight RS-422/485 serial ports via high-density connector
- Optional adapter cable to convert the high-density connector to standard DB-9 connectors
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  — Linux
  — Windows
  — Solaris
  — VxWorks

The AMC320 is a single-width, half-height AdvancedMC^{TM} (AMC) based on the AMC.1 specification. The AMC320 provides eight ports of RS-422/485 with hardware handshake.

The ports are accessible through the front panel using a high density connector. VadaTech offers an adapter cable to convert the high density connector to standard DB-9 connectors. Additionally, the AMC320 has four digital input/output ports with RS-422 signaling. The AMC320 has 120 Ohm termination on board for RS-485.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

AdvancedMC™

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Single-Width, Half-Height (with Mid or Full-Height options)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	**AMC Serial**	RS-422/485
	8 Ports	Eight Ports with hardware handshake
Standards		
AMC	**Type**	AMC.1
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	x4
Configuration		
Power	**AMC320**	3.5W
ESD	**Human Model**	Up to ±15 kV
Environmental	**Temperature**	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**Interface Connectors**	High-density SCSI type connector
	Adapter	High-density to standard DB-9 adapter (see ordering options)
	LEDs	IPMI Management Control
		Activity
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux, Windows, Solaris and VxWorks
Other		
MTBF	MIL Spec 217-F > 222,000 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	
Compliance	RoHS and NEBS	
Warranty	Two (2) years.	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC[TM] and the AdvancedTCA[TM] logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	
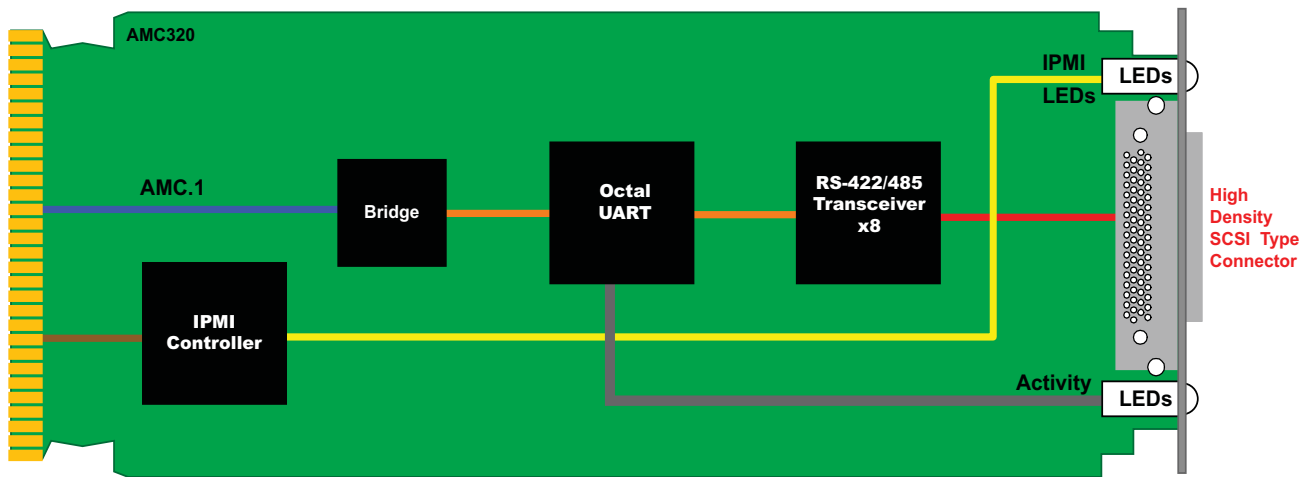
FIGURE 1. AMC320 Functional Block Diagram
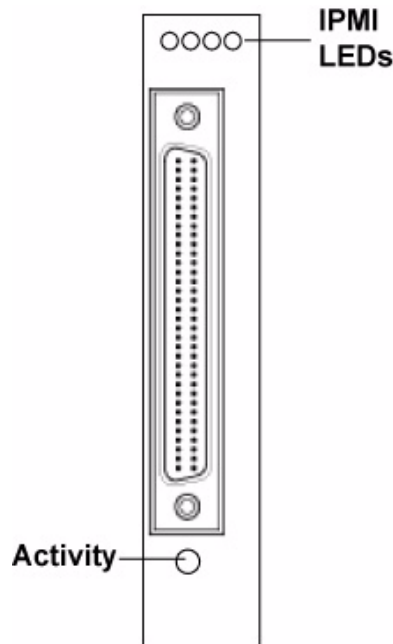
FIGURE 2. AMC320 Front Panel
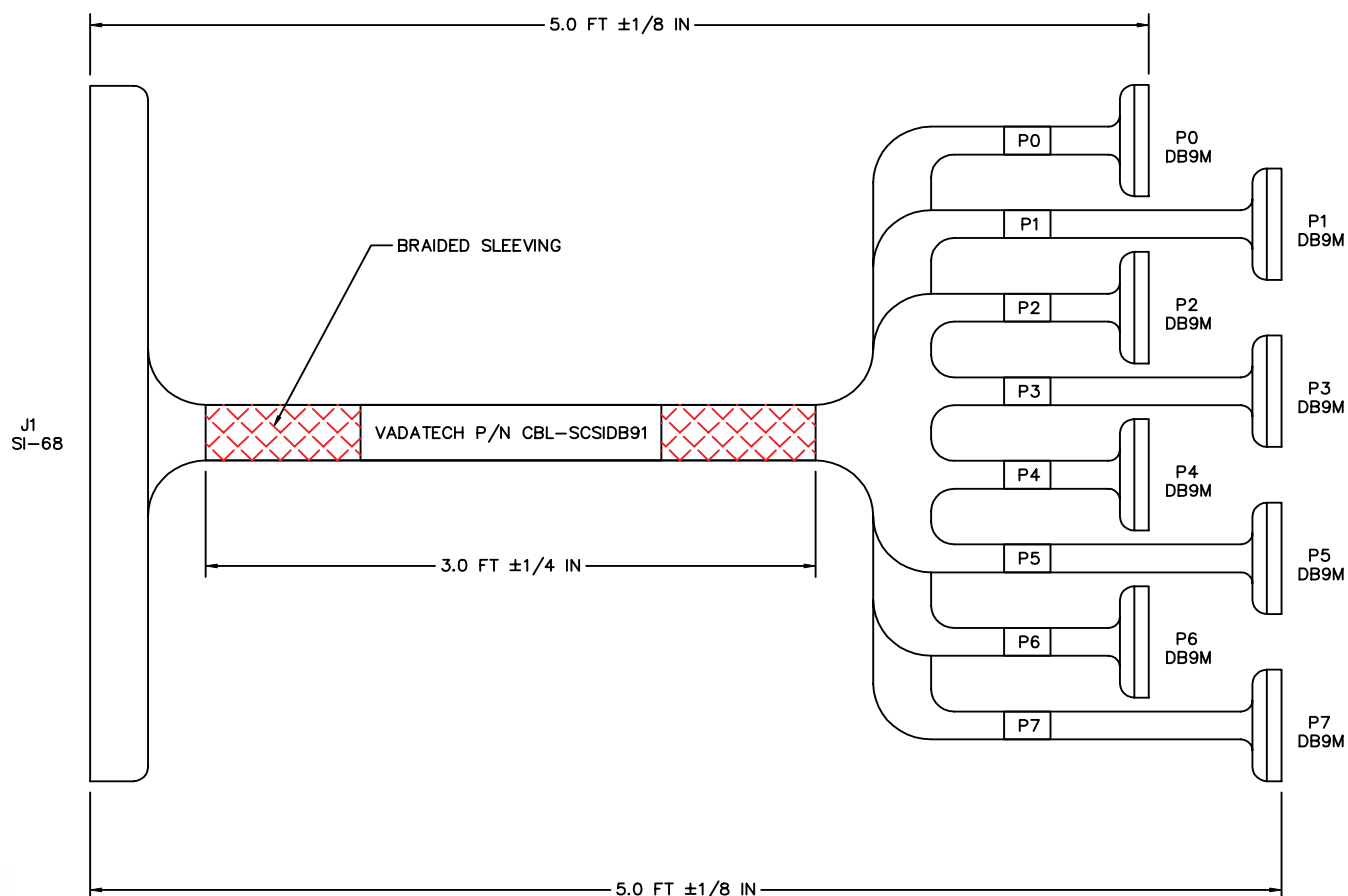
FIGURE 3. Front Panel Adapter Cable

ORDERING OPTIONS

AMC320 - A 0 C - 0 0 0 - 0 0 J

A = Front Panel Interface
1 = With adapter cable
2 = Without adapter cable

C = Front Panel Height
1 = Half-Height
2 = Mid-Height
3 = Full-Height

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

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