



KEY FEATURES

- AMC.1 compliant
- PCIe Gen 2 x8 lanes
- IBTA Specification 1.2 compliant
- RDMA, Send/Receive semantics
- Hardware-based congestion control
- 16 million I/O channels
- 2GB messages
- 10 or 20Gb/s per port
- T10 as well as Fiber Channel over InfiniBand support (FCoIB)
- CPU offload of transport operations
- End-to-End QoS and congestion control
- Hardware-based I/O virtualization
- TCP/UDP/IP stateless offload
- Dual 4x InfiniBand ports
- Supports active cables & fiber adapters
- OS support for:
 - Linux
 - Windows
 - Solaris

The AMC330 is a single-width, mid-height AdvancedMC™ (AMC) based on the AMC.1 specification. The AMC330 provides Dual 4x InfiniBand at 10 or 20Gb/s per port.

The InfiniBand Host Channel Adapter (HCA) deliver low-latency and high-bandwidth for performance-driven storage clustering, High-Performance Computing, and Embedded environments. The AMC330 has support for hardware-based I/O virtualization which is complementary to Intel and AMD virtualization technologies.

The hardware offload architecture allows clustered and client/server applications achieve maximum performance since the CPU cycles are available to focus on critical application processing instead of network functions. Network protocol processing and data movement overhead such as RDMA and Send/Receive semantics are completed in the adapter without CPU intervention. Applications utilizing TCP/UDP/IP transport can achieve industry-leading throughput when run over the HCA and its hardware-based stateless offload engines.

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

AdvancedMC™

AMC Dual-Port InfiniBand

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Mid-Height Front Panel
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Serial	InfiniBand
		Dual-port
		10 or 20 Gb/s per port
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	x4 or x8
	Gen	Gen 2 (each lane at 5.0Gb/s)
Configuration		
Power	AMC330	9W
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
Front Panel	Relative Humidity	5 to 95 percent, non-condensing
	Interface Connectors	Dual InfiniBand x4 Connectors
	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 > 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	
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™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

AMC Dual-Port InfiniBand

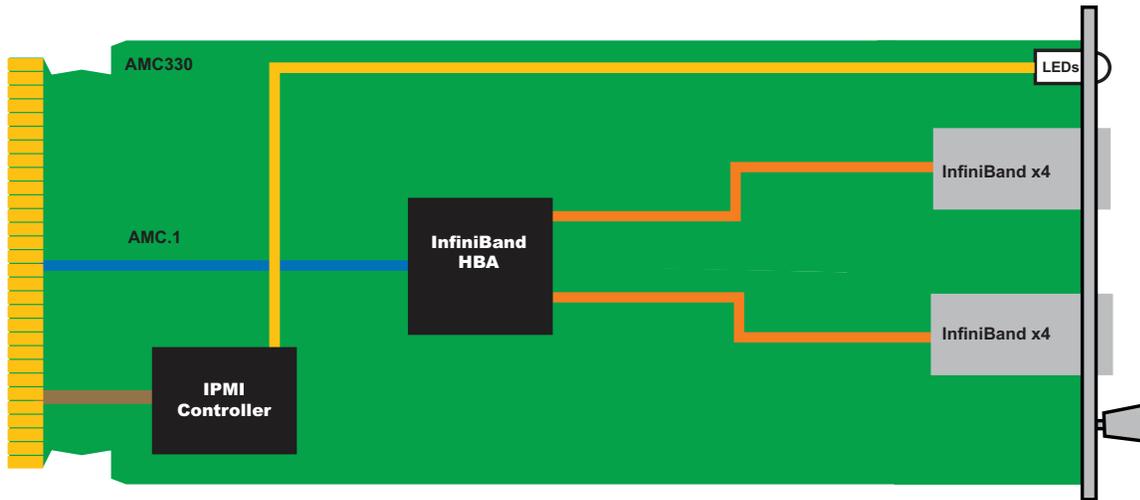


FIGURE 1. AMC330 Functional Block Diagram

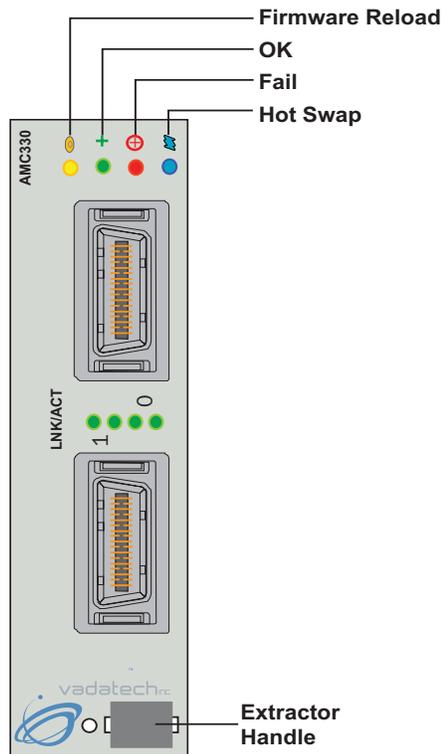


FIGURE 2. AMC330 Front Panel

ORDERING OPTIONS

AMC330 - A0C - 000 - 00J

A = PCIe Gen 2

- 1 = x4
- 2 = x8

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

C = Front Panel Height

- 1 = Reserved
- 2 = Mid-Height
- 3 = Full-Height



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