

KEY FEATURES

- AMC.1 compliant
- PCIe Gen 2 x8 lanes
- 10Gb/s full duplex bandwidth for servers and storage
- TCP/UDP/IP checksum offload
- TCP Large Send (<64KB) or Giant Send (64KB to 16MB)
- Receive Side Scaling (RSS) up to 32 queues
- Line rate packet filtering
- Traffic steering across multiple cores
- Intelligent interrupt coalescence
- Full support for Intel I/OAT
- Compliant to Microsoft RSS and NetDMA
- Jumbo Frame support (10KB)
- 128MAC/VLAN address per port
- Dual CX4 ports
- Supports active cables & fiber adapters
- OS support for:
 - Linux
 - Windows

The AMC210 is a single-width, mid-height AdvancedMC™ (AMC) based on the AMC.1 specification. The AMC210 provides Dual 10 Gigabit Ethernet.

VadaTech AMC220 Network Interface Card (NIC) deliver high-bandwidth and industry leading 10GbE connectivity with stateless offloads for performance-driven server and storage applications. The AMC210 has support for hardware-based I/O virtualization which is complementary to Intel and AMD virtualization technologies.

The hardware-based stateless offload engines handle the TCP/UDP/IP segmentation, reassembly, and checksum calculations that would otherwise be under the host processor. These offload technologies are fully compatible with Intel I/OAT QuickData technology. The Dual port 10GBase-CX4 adapter enables connectivity over 20+ meters of copper cables. The active copper and active fiber cable solutions can reaches up to 100m.

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

AdvancedMC™

AMC Dual-Port 10GbE

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Mid-Height Front Panel (option for full-height)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Serial	10GbE
		Dual-port
		10 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	AMC210	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 CX4 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.	

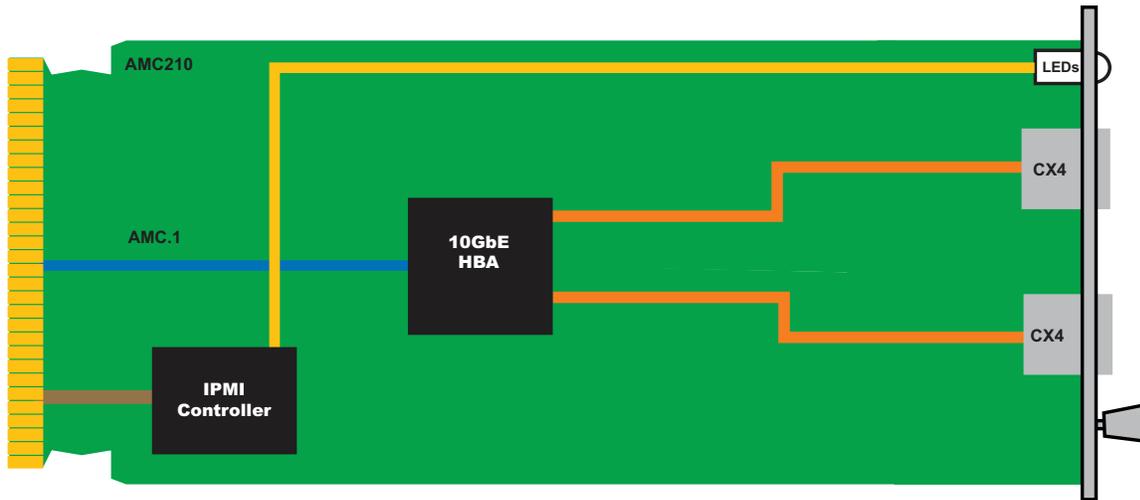


FIGURE 1. AMC210 Functional Block Diagram

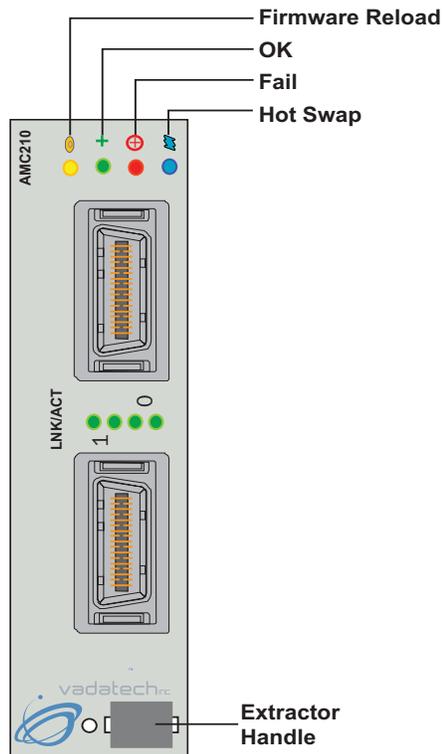


FIGURE 2. AMC210 Front Panel

ORDERING OPTIONS

AMC210 - AOC - 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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