Dual Port 10 GbE, RJ-45

KEY FEATURES

- Dual 10GbE over RJ45
- PCIe Gen3 x4 lanes, AMC.1 compliant
- IEEE P802.1AE LinkSec
- IPV6 Support for IP/TCP
- 10Gb/s full duplex bandwidth
- TCP Segmentation off load: up to 256 KB
- Jumbo Frames of up to 15.5 KB
- Dynamic Interrupt moderation
- Eight VLAN L2 Filters
- 16 Flex L3 Port Filters
- Four L3 Address Filters (IPV4)
- Four L3 Address Filters (IPV6)
- IPMI 2.0 compliant
- RoHS compliant

AdvancedMC™

Benefits of Choosing VadaTech

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

The AMC232 is a single-width, mid-height AdvancedMC™ (AMC) based on the AMC.1 specification (full-height option available). The AMC232 provides Dual 10 Gigabit Ethernet via front panel RJ-45.

The AMC232 supports IEEE802.1AE LinkSec Specifications. The module can off-load IPsec for up to 1024 Security Associations (SA) for each TX and RX.

The AMC232 provide wire speed dual-port 10GbE throughput. The module reduces end-to-end latency for high priority traffic. In order to enhance the CPU utilization, the module supports Receive Side Coalescing (RSC).

The AMC232 supports the IEEE P802.1AE LinkSec specification. It incorporates an in-line packet crypto unit, off-load IPSec for up to 1024 Security Associations (SA), AH and ESP protocols for authentication and encryption, AES-128-GMAC and AES-128-GCM.
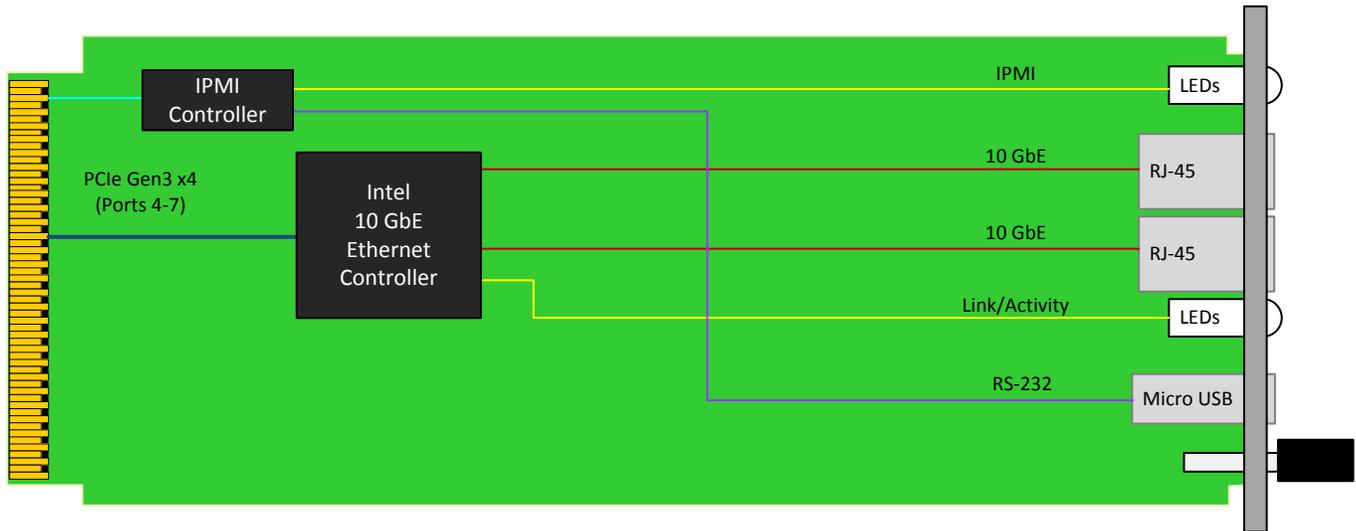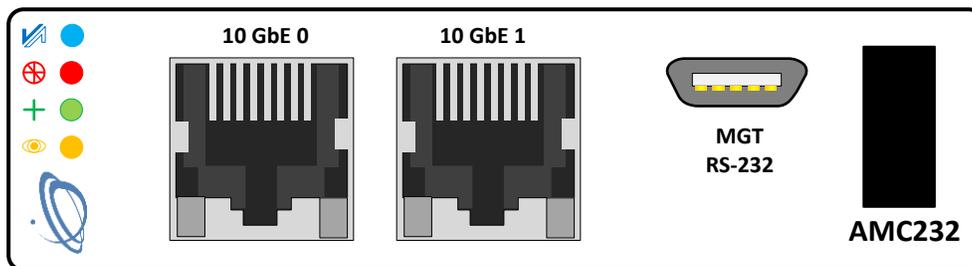
BLOCK DIAGRAM

Figure 1: Block Diagram

FRONT PANEL

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 Serial	10 GbE Dual port, 10 Gbps per port
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI v2.0
PCIe	Lanes	x4 PCIe Gen 3 lanes
Configuration		
Power	AMC232	11 W
Environmental	Temperature	Operating temperature: -5° to 65° C (air flow requirement of >200 LFM), (See environmental spec sheet)
		Storage temperature: –40° to +90° C
	Vibration	1 G, 50-500 Hz on each axis
	Shock	30 Gs on each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI management control
		Link/Activity
	Interface	Dual RJ-45
	Mechanical	Hot swap ejector handle
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	

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

AMC232 – 00C – 000 – 00J

C = Front Panel Size
1 = Reserved
2 = Mid-size
3 = Full-size

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

RELATED PRODUCTS

VT866 5U µTCA Chassis, 12 Full Size AMC, 40GbE

AMC211 Dual-Port 10GbE with SFP+

UTC020 Power Module

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