

## AMC Dual Port 10GbE iSCSI Offload – AMC234

Dual Port iSCSI Offload



### KEY FEATURES

- iSCSI offload engine in AMC format
- AMC.1 compliant
- PCIe Gen 2 x8 lanes or PCIe Gen 3 x4 lanes
- Dual SFP+
- Line rate on all ports
- Jumbo frames of up to 9 KB
- IPv6 support for TCP/IP (RFC2460)
- IEEE: 802.3ae, 802.1q (VLAN), 802.3ad (Link Aggregation), 802.1p (Priority Encoding), 802.3x (Flow Control), 802.1Qaz, 802.1Qau (Congestion Notification)
- OS support for Linux and Windows
- RoHS compliant

### Benefits of Choosing VadaTech

- Dual 10GbE iSCSI offload engine
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC234 is a single module, mid-size AdvancedMC™ (AMC) based on the AMC.1 specification (full-size option available). The AMC234 provides dual 10 Gigabit Ethernet via front panel SFP+.

The AMC234 supports high bandwidth converged storage (SAN) and network traffic and supports line-rate. The module also provides simultaneous TCP/IP and iSCSI.

*VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.*

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and  $\mu$ TCA 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.

## BLOCK DIAGRAM

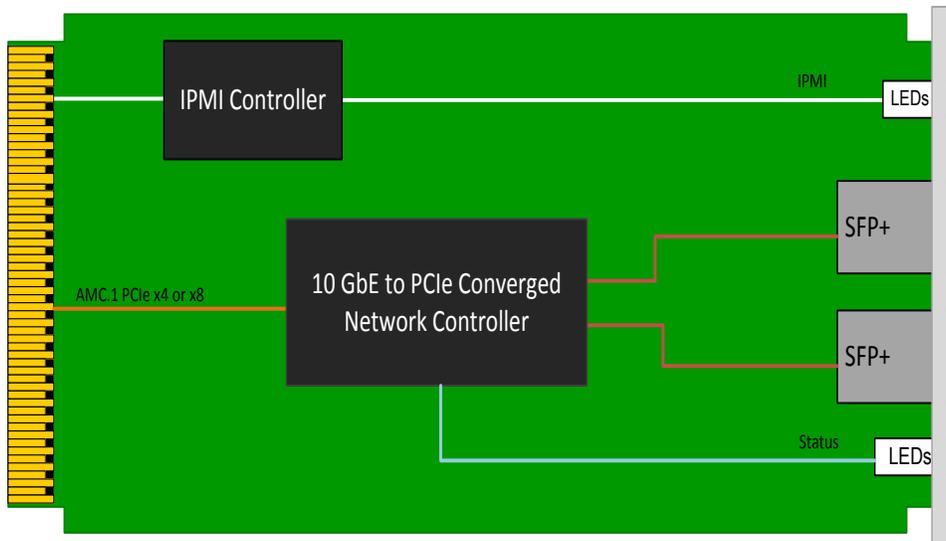


Figure 1: Block Diagram



Figure 2: Front Panel

## SPECIFICATIONS

| Architecture              |  |  |
|---------------------------|--|--|
| Physical                  | Dimensions   | Single module, mid-size (full-size options available)<br>Width: 2.89" (73.5 mm)<br>Depth: 7.11" (180.6 mm)   |
|                           | Type   | AMC Serial<br>Dual port 10 GbE   |
| Standards                 |  |  |
| AMC                       | Type   | AMC.1  |
| Module Management         | IPMI   | IPMI Version 2.0   |
| Configuration             |  |  |
| PCIe                      | Lanes  | 4x or 8x   |
|                           | Generation   | Gen 2 (each lane at 5.0 Gb/s)<br>Gen 3 (each lane at 8.0 Gb/s)   |
|                           | Power  | AMC234<br>10 W   |
| Environmental             | Temperature  | Operating temperature: –5° to 55° C (air flow requirement of >200 LFM, industrial versions also available (See <a href="#">environmental spec sheet</a> )<br>Storage temperature: –40° to +85° C |
|                           | Vibration  | Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz   |
|                           | Shock  | 30Gs on each axis  |
|                           | Relative Humidity  | 5 to 95 percent, non-condensing  |
| Front Panel               | LEDs   | IPMI management control<br>Status  |
|                           | Interface Connectors   | Dual SFP+, Management RS-232   |
|                           | Mechanical   | Hot swap ejector handle  |
| Software Support          | Operating System   | Linux and Windows  |
| Other                     |  |  |
| MTFB                      | MIL Handbook 217-F@TBD Hrs   |  |
| Certifications            | Designed to meet FCC, CE and UL certifications where applicable  |  |
| Compliance                | PICMG 3.0 Rev 3.0, RoHS 2 and NEBS Level 3.  |  |
| Standards                 | VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards  |  |
| Warranty                  | Two (2) years  |  |
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## ORDERING OPTIONS

### AMC234 – ABC – 000 – 0HJ

#### A = PCIe

- 1 = x4 (Gen3 only)
- 2 = x8 (Gen2 only)

#### B = SFP+ Transceivers

- 0 = None
- 1 = 10GBASE-SR
- 2 = Reserved
- 3 = 10GBASE-LR

#### C = Front Panel Size

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

#### H = Operating Temperature

- 0 = Commercial (-5° to +55° C)
- 1 = Industrial (-20° to +70° C)
- 2 = Military (-40° to +80° C)\*

#### J = Conformal Coating

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

\*Edge of module for conduction-cooled boards

## RELATED PRODUCTS



VT841 1U  
Chassis Platform



UTC004 Gen 3  
MCH



UTC020 1000W  
Power Module

## CONTACT US

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