The AMC236 is a 8 port Gigabit Ethernet (GbE) AdvancedMC™ (AMC) module via SFP connectors. VadaTech offers this product in a full-height form factor based on the AMC.1 specification.

This module allows for a mix of Fiber and/or copper transceiver.

The AMC236 is based on the latest Intel® Gigabit Ethernet controller (82580 chip).

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

**KEY FEATURES**

- AMC.1
- Single-width, full-height
- 8 Gigabit Ethernet ports via SFP
- PCIe Gen2 x4 or x8 lanes to Ports 4-11
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks
# SPECIFICATIONS

## Architecture

<table>
<thead>
<tr>
<th>Physical</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single-Width, Mid-Height (Full-Height option)</td>
</tr>
<tr>
<td></td>
<td>Width: 2.89 in. (73.5 mm)</td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11 in. (180.6 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>AMC GbE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 port Gigabit Ethernet</td>
</tr>
<tr>
<td></td>
<td>10/100/1000 Mbps operation - Copper or Fiber (SX or LX)</td>
</tr>
<tr>
<td></td>
<td>IP, TCP, and UDP checksum offload capabilities, Stateless offloads (Header split, RSS)</td>
</tr>
<tr>
<td></td>
<td>UDP/TCP transmit segmentation Offload (TSO), SCTP receive and transmit checksum offload</td>
</tr>
</tbody>
</table>

## Standards

<table>
<thead>
<tr>
<th>AMC</th>
<th>AMC.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Management</td>
<td>IPMI</td>
</tr>
<tr>
<td></td>
<td>IPMI Version 2.0</td>
</tr>
<tr>
<td>PCIe</td>
<td>Lanes Gen2 x4 or x8</td>
</tr>
</tbody>
</table>

## Configuration

<table>
<thead>
<tr>
<th>Power</th>
<th>AMC236</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10W Max</td>
</tr>
</tbody>
</table>

## Environmental

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration</td>
<td>1G, 5-500Hz each axis</td>
</tr>
<tr>
<td>Shock</td>
<td>30Gs each axis</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5 to 95 percent, non-condensing</td>
</tr>
</tbody>
</table>

## Front Panel

<table>
<thead>
<tr>
<th>Interface Connectors</th>
<th>Quad SFP connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDs</td>
<td>IPMI Management Control</td>
</tr>
<tr>
<td></td>
<td>Activity and Link, PCIe Lane Good</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Hot Swap Ejector Handle</td>
</tr>
</tbody>
</table>

## Software Support

| Operating Systems      | Linux, Windows, Solaris and VxWorks       |

## Other

<table>
<thead>
<tr>
<th>MTBF</th>
<th>MIL Handbook 217-F &gt;TBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications where applicable</td>
</tr>
<tr>
<td>Standards</td>
<td>VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards</td>
</tr>
<tr>
<td>Compliance</td>
<td>RoHS and NEBS</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two (2) years</td>
</tr>
</tbody>
</table>

## Trademarks and Logos

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FIGURE 1. AMC236 Functional Block Diagram

FIGURE 2. AMC236 Front Panel
### ORDERING OPTIONS

**AMC236 - A0C - DEF- OHJ**

<table>
<thead>
<tr>
<th>A = Interface</th>
<th>D = Number of Fiber SX Transceivers</th>
<th>H = Operating Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = PCIe Gen2 x4 (ports 4-7)</td>
<td>0 = None</td>
<td>0 = Commercial (0° to +65°)</td>
</tr>
<tr>
<td>1 = PCIe Gen2 x8 (ports 4-11)</td>
<td>X = Number of Transceivers</td>
<td>1 = Industrial (-20° to +70°)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C = Front Panel Height</th>
<th>E = Number of Fiber LX Transceivers</th>
<th>J = Conformal Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Reserved</td>
<td>0 = None</td>
<td>0 = None</td>
</tr>
<tr>
<td>2 = Reserved</td>
<td>X = Number of Transceivers</td>
<td>1 = Humiseal 1A33 Polyurethane</td>
</tr>
<tr>
<td>3 = Full-Height</td>
<td></td>
<td>2 = Humiseal 1B31 Acrylic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F = Number of Copper Transceivers</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = None</td>
</tr>
</tbody>
</table>