AMC237 – Four Port Gigabit Ethernet AMC

**KEY FEATURES**

- AMC.1 compliant
- Single-module, half-size (option for mid-size and full-size)
- 4 Gigabit Ethernet ports via RJ-45
- PCIe Gen2 x4 lanes to Ports 4-7 (option via dip-switch for Ports 8-11)
- IPMI 2.0 compliant
- RoHS compliant

**Benefits of Choosing VadaTech**

- 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 AMC237 is a 4 port Gigabit Ethernet (GbE) AdvancedMC™ (AMC) module. VadaTech offers this product in a single module, half-size (option for mid-size and full-size) form factor based on the AMC.1 specification.

The AMC237 is based on the latest Intel® Gigabit Ethernet controller (82580 chip).
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BLOCK DIAGRAM

Figure 1: Block Diagram

Figure 2: Front Panel
## SPECIFICATIONS

### Architecture

<table>
<thead>
<tr>
<th>Physical</th>
<th>Dimensions</th>
<th>Single module, mid-size (full-size options available)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width: 2.89&quot; (73.5 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11&quot; (180.6 mm)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>AMC GbE</td>
<td>Four port GbE, 10/100/1000 Mbps operation - Copper</td>
</tr>
<tr>
<td></td>
<td>IP, TCP, and UDP checksum offload capabilities, Stateless offloads (Header split, RSS)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UDP/TCP transmit segmentation Offload (TSO), SCTP receive and transmit checksum offload</td>
<td></td>
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</tbody>
</table>

### Standards

<table>
<thead>
<tr>
<th>AMC Type</th>
<th>AMC.0 and AMC.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Management IPMI</td>
<td>IPMI Version 2.0</td>
</tr>
</tbody>
</table>

### Configuration

| PCIe Lanes | Gen2 x4 |
| Power AMC237 | 5 W (max) |
| Environmental Temperature | Operating temperature: –5°C to 55°C C (air flow requirement of >200 LFM, industrial versions also available) (See environmental spec sheet) |
| Storage temperature: –40°C to +85°C |
| Vibration | Operating 9.8 m/s² (1G), 5 to 500 Hz |
| Shock | 30Gs on each axis |
| Relative Humidity | 5 to 95 percent, non-condensing |
| Front Panel LEDs | IPMI management control |
| Interface Connectors | Quad RJ-45 connectors |
| Mechanical | Hot swap ejector handle |

### Other

| Operating System | Linux, Windows, Solaris and VxWorks |
| MTBF 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

AMC237 – 00C – 000 – 0HJ

C = Front Panel Size
1 = Half-size
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

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