AMC013
Isolated I/O Expansion

Key Features

- Isolated RS-485
- Ten Isolated Output
- Ten Isolated Input
- Single ST Style Fiber optical output
- Seamless connection to the VadaTech FMC155 module
- IPMI 2.0 compliant
- RoHS compliant

Benefits

- VadaTech has full eco-system across multiple I/O modules
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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AMC013

The AMC013 provides an easy way to connect to the FMC155 module to provide expansion of the I/O. The module provides Isolated RS-485, Ten Isolated Output, Ten Isolated Input and a single Fiber ST style optical output.

The Isolated Input voltage could be as high as 60V and the output drive could be as high as 35V.

*The module comes only in 8HP panel.*
Block Diagram

Figure 1: AMC013 Functional Block Diagram

Front Panel

Figure 2: AMC013 Front Panel
Specifications

**Architecture**

**Physical Dimensions** Double module, Extended Height (8HP)
- Width: 5.85” (148.5 mm)
- Depth: 7.11” (180.6 mm)

**Type** AMC Development
Airflow test and monitoring

**Standards**

**AMC** Type AMC.0
**Module Management** IPMI IPMI version 2.0

**Configuration**

**Power** AMC013 3 W

**Environmental Temperature**
- Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial versions also available (See environmental spec sheet)
- Storage Temperature: -40° to +95°C
- Vibration Operating 9.8 m/s² (1G), 5 to 500Hz on each axis
- Shock Operating 30G each axis
- Relative Humidity 5 to 95 per cent, non-condensing

**Front Panel Interface Connectors**
- Micro USB or management RS-232
- Menu push button for display scroll

**LEDs** IPMI management control

**Display** LCD display to output status

**Mechanical** Hot swap ejector handle

**Other**

**MTBF** MIL Hand book 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

**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

**AMC013 – 00C-000-00J**

<table>
<thead>
<tr>
<th>C = Front Panel Size</th>
<th>J = Temperature Range and Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Reserved</td>
<td>0 = Commercial (−5° to +55°C), No coating</td>
</tr>
<tr>
<td>2 = Reserved</td>
<td>1 = Commercial (−5° to +55°C), Humiseal 1A33 Polyurethane</td>
</tr>
<tr>
<td>3 = Reserved</td>
<td>2 = Commercial (−5° to +55°C), Humiseal 1B31 Acrylic</td>
</tr>
<tr>
<td>4 = Reserved</td>
<td>3 = Industrial (−20° to +70°C), No coating</td>
</tr>
<tr>
<td>5 = Reserved</td>
<td>4 = Industrial (−20° to +70°C), Humiseal 1A33 Polyurethane</td>
</tr>
<tr>
<td>6 = Reserved</td>
<td>5 = Industrial (−20° to +70°C), Humiseal 1B31 Acrylic</td>
</tr>
<tr>
<td>7 = 8 HP, MTCA.1 (captive screw)</td>
<td>6 = Extended (−40° to +85°C), Humiseal 1A33 Polyurethane*</td>
</tr>
<tr>
<td></td>
<td>7 = Extended (−40° to +85°C), Humiseal 1B31 Acrylic*</td>
</tr>
</tbody>
</table>

**Related Products**

- **AMC001**
  - Single-width, mid-height or full-height
  - 32-bit IPMI RISC processor
  - Up to 90W adjustable power load
  - True payload power request to the carrier (MCH/Shelf)

- **AMC011**
  - Up to 192W adjustable power load
  - True payload power request to the carrier (MCH/Shelf)
  - Front panel LCD to indicate status

- **MRT012**
  - Five zone airflow sensor
  - Eight temp sensors to monitor various on-board temperatures
  - Module allows adding blocks to emulate a true payload module impedance
Contact

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