AMC Sixteen Port RS-232 Serial Adapter – AMC304

KEY FEATURES

- AMC.1 compliant
- x1 PCIe lane on Port 4 or Port 8
- Single module, compact-size (mid-size and full-size options available)
- Sixteen RS-232 serial ports using a high density connector
- Optional adapter cable to convert the high density connector to standard DB-9 connector, one per port (see ordering options)
- IPMI 2.0 compliant
- RoHS compliant

Benefits of Choosing VadaTech

- High density connector for access to sixteen RS-232 ports
- 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 AMC304 provides sixteen RS-232 ports (RX and TX) in a single module, compact-size AdvancedMC™ (AMC) based on the AMC.1 specification. The ports are available through the front panel with a high-density connector. VadaTech offers an adapter cable to convert the high-density connector to standard DB-9 ports.

For a different front panel I/O connector, contact Sales.
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.

BLOCK DIAGRAM

Figure 1: AMC304 Block Diagram and Front Panel

Figure 2: Diagram of Optional Adapter Cable
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
<th>Dimensions</th>
<th>Single module, compact-size (mid-size and full-size options available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>Width: 2.89” (73.5 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11” (180.6 mm)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>AMC Serial</td>
<td>RS-232</td>
</tr>
<tr>
<td></td>
<td>16 ports</td>
<td>Hardware support (RX and TX)</td>
</tr>
<tr>
<td>Standards</td>
<td>AMC Type</td>
<td>AMC.1</td>
</tr>
<tr>
<td>Module Management</td>
<td>IPMI</td>
<td>IPMI version 2.0</td>
</tr>
<tr>
<td>PCIe</td>
<td>Lanes</td>
<td>x1</td>
</tr>
<tr>
<td>Configuration</td>
<td>Power</td>
<td>AMC304</td>
</tr>
<tr>
<td>Environmental</td>
<td>Temperature</td>
<td>Operating Temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet)</td>
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<tr>
<td></td>
<td>Storage Temperature: -40° to +85°C</td>
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<tr>
<td></td>
<td>Vibration</td>
<td>Operating 9.8 m/s² (1.0 G), 5 to 500Hz</td>
</tr>
<tr>
<td></td>
<td>Shock</td>
<td>30Gs on each axis</td>
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<tr>
<td></td>
<td>Relative Humidity</td>
<td>5 to 95 per cent, non-condensing</td>
</tr>
<tr>
<td>Front Panel</td>
<td>Interface Connectors</td>
<td>High density SCSI type connector</td>
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<tr>
<td></td>
<td></td>
<td>Micro 68-pin SCSI to (16) DB9 Male connector via adapter cable</td>
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<tr>
<td></td>
<td>LEDs</td>
<td>IPMI management control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Activity</td>
</tr>
<tr>
<td></td>
<td>Mechanical</td>
<td>Hot swap ejector handle</td>
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<tr>
<td></td>
<td>Conformal Coating</td>
<td>Humiseal 1A33 Polyurethane (Optional)</td>
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<tr>
<td></td>
<td></td>
<td>Humiseal 1B31 Acrylic (Optional)</td>
</tr>
<tr>
<td>Other</td>
<td>MTBF</td>
<td>MIL Hand book 217-F @ TBD Hrs</td>
</tr>
<tr>
<td></td>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications where applicable</td>
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<tr>
<td></td>
<td>Standards</td>
<td>VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards</td>
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<td>Warranty</td>
<td>Two (2) years</td>
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<td>Trademarks and Disclaimer</td>
<td>The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice</td>
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VadaTech
The Power of Vision

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ORDERING OPTIONS

AMC304 – ABC – 000 – 0HJ

A = Front Panel Interface
1 = With Adapter Cable
2 = Without Adapter Cable

B = PCIe Routing
0 = Port 4
1 = Port 8

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

H = Temperature Range
0 = Commercial (–5° to +45° C)
1 = Industrial (–20° to +70° C)
2 = Military (–40° to 85° C)*

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

*Edge of module for conduction-cooled boards

RELATED PRODUCTS

AMC720 Intel Core i Processor AMC
UTC010 Power Module
UTC002 MCH

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