AMC321

The AMC321 is a single-width, half-height AdvancedMC™ (AMC) based on the AMC.1 specification. The AMC321 provides sixteen RS-422/485 ports.

The ports are accessible through the front panel using a high-density sixteen port connector. VadaTech offers an adapter cable to convert the high-density connector to standard DB-9 connectors. The AMC321 has 120 Ohm termination on board for RS-485.

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

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

KEY FEATURES

- AMC.1 compliant
- Single-width, half-height (mid-height and full-height options available)
- PCIe x4 lanes
- Sixteen RS-422/485 serial ports via high-density connector
- Optional adapter cable to convert the high-density connector to standard DB-9 connectors
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks
### SPECIFICATIONS

#### Architecture

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Single-Width, Half-Height (with Mid or Full Height options)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>2.89 in. (73.5 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>7.11 in. (180.6 mm)</td>
</tr>
</tbody>
</table>

#### Type

- **AMC Serial**: RS-422/485
- **16 Ports**: Sixteen Ports with no hardware handshake

#### Standards

| AMC Type        | AMC.1                                                      |
| Module Management IPMI | IPMI Version 2.0                                          |
| PCIe Lanes      | x4                                                        |

#### Configuration

| Power            | AMC321 4W                                                  |
| ESD Human Model  | Up to ±15 kV                                               |
| ESD Temperature  | Operating Temperature: 0° to 65 °C (Air flow requirement is to be greater than 200 LFM) |
| ESD Storage Temperature | -40° to +90 °C                                             |
| ESD Vibration    | 1G, 5-500Hz each axis                                      |
| ESD Shock        | 30Gs each axis                                             |
| ESD Relative Humidity | 5 to 95 percent, non-condensing                          |
| Front Panel      | High-density SCSI type connector                           |
| Interface Connectors | Micro 68-Pin SCSI to (16) DB9 Male connectors             |
| (See Ordering Options) | IPMI Management Control                                    |
| LED Activity     | Activity                                                   |
| Mechanical       | Hot Swap Ejector Handle                                    |

#### Environmental

- **Operating Temperature**: 0° to 65 °C (Air flow requirement is to be greater than 200 LFM)
- **Storage Temperature**: -40° to +90 °C
- **Vibration**: 1G, 5-500Hz each axis
- **Shock**: 30Gs each axis
- **Relative Humidity**: 5 to 95 percent, non-condensing

#### Front Panel

- **Interface Connectors**: High-density SCSI type connector
- **Micro 68-Pin SCSI to (16) DB9 Male connectors**
- **LEDs**: IPMI Management Control
- **Activity**
- **Mechanical**: Hot Swap Ejector Handle

#### Software Support

- **Operating Systems**: Linux, Windows, Solaris and VxWorks

#### Other

- **MTBF**: MIL Spec 217-F@ 160,000 Hrs.
- **Certifications**: Design to meet FCC, CE and UL certifications where applicable
- **Standards**: VadaTech is certified to both the IS09001:2000 and AS9100B:2004 standards
- **Compliance**: RoHS and NEBS
- **Warranty**: Two (2) years.

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AMC Sixteen Port RS-422/485 Serial Adapter

FIGURE 1. AMC321 Functional Block Diagram

FIGURE 2. AMC321 Front Panel
FIGURE 3. Adapter Cable

ORDERING OPTIONS

AMC321 - A 0 C - 0 0 0 - 0 0 J

A = Front Panel Interface
1 = With adapter cable
2 = Without adapter cable

C = Front Panel Height
1 = Half-Height
2 = Mid-Height
3 = Full-Height

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

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