



### KEY FEATURES

- AMC.1 compliant
- PCIe x4 lanes
- Single-width, half-height (Mid-Height and Full-Height options available)
- Eight RS-232 serial ports using a high-density connector
- Optional adapter cable to convert the high-density connector to standard DB-9 connectors, one per port (see ordering options)
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks

The AMC300 provides eight ports of RS-232 with full hardware modem support (RX, TX, RTS, CTS, DTR, DSR, CD, and RI) in a single-width, half-height AdvancedMC™ (AMC) form factor. All eight ports are available through the front panel with a high-density connector. VadaTech offers an octopus adapter cable to convert this high-density connector to multiple standard DB-9 connectors.

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).

**AdvancedMC™**

# AMC Eight Port RS-232 Serial Adapter

## SPECIFICATIONS

| Architecture         |                                                                                                                                                                                                                                                                                                                       |                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Physical             | Dimensions                                                                                                                                                                                                                                                                                                            | Single-Width, Half-Height (with Mid or Full-Height options)                             |
|                      |                                                                                                                                                                                                                                                                                                                       | Width: 2.89 in. (73.5 mm)                                                               |
|                      |                                                                                                                                                                                                                                                                                                                       | Depth: 7.11 in. (180.6 mm)                                                              |
| Type                 | AMC Serial                                                                                                                                                                                                                                                                                                            | RS-232                                                                                  |
|                      | 8 Ports                                                                                                                                                                                                                                                                                                               | Full hardware modem support (RX, TX, RTS, CTS, DTR, DSR, CD, and RI)                    |
| Standards            |                                                                                                                                                                                                                                                                                                                       |                                                                                         |
| AMC                  | Type                                                                                                                                                                                                                                                                                                                  | AMC.1                                                                                   |
| Module Management    | IPMI                                                                                                                                                                                                                                                                                                                  | IPMI Version 2.0                                                                        |
| PCIe                 | Lanes                                                                                                                                                                                                                                                                                                                 | x4                                                                                      |
| Configuration        |                                                                                                                                                                                                                                                                                                                       |                                                                                         |
| Power                | AMC300                                                                                                                                                                                                                                                                                                                | 3.5W                                                                                    |
| ESD                  | Human Body Model                                                                                                                                                                                                                                                                                                      | Up to ±15 kV                                                                            |
| Environmental        | Temperature                                                                                                                                                                                                                                                                                                           | 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<br>(See Ordering Options)                                                                                                                                                                                                                                                                        | High-density SCSI type connector                                                        |
|                      |                                                                                                                                                                                                                                                                                                                       | Micro 68-Pin SCSI to (8) DB9 Male connectors                                            |
|                      | LEDs                                                                                                                                                                                                                                                                                                                  | IPMI Management Control                                                                 |
|                      |                                                                                                                                                                                                                                                                                                                       | Activity                                                                                |
|                      | Mechanical                                                                                                                                                                                                                                                                                                            | Hot Swap Ejector Handle                                                                 |
|                      | Conformal Coating                                                                                                                                                                                                                                                                                                     | Humiseal 1A33 Polyurethane Conformal Coating                                            |
|                      |                                                                                                                                                                                                                                                                                                                       | Humiseal 1B31 Acrylic Conformal Coating                                                 |
| Software Support     | Operating Systems                                                                                                                                                                                                                                                                                                     | Linux, Windows, Solaris and VxWorks                                                     |
| Other                |                                                                                                                                                                                                                                                                                                                       |                                                                                         |
| MTBF                 | MIL Spec 217-F@ 292,000 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                                                                                                                                                                                                                                             |                                                                                         |
| Compliance           | RoHS and NEBS                                                                                                                                                                                                                                                                                                         |                                                                                         |
| Warranty             | Two (2) years.                                                                                                                                                                                                                                                                                                        |                                                                                         |
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# AMC Eight Port RS-232 Serial Adapter

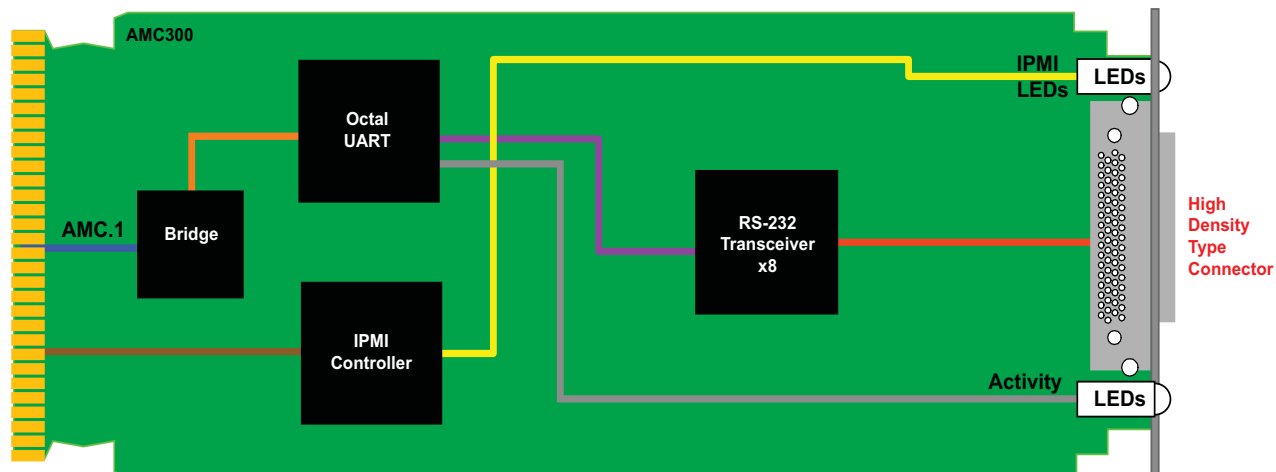


FIGURE 1. AMC300 Functional Block Diagram

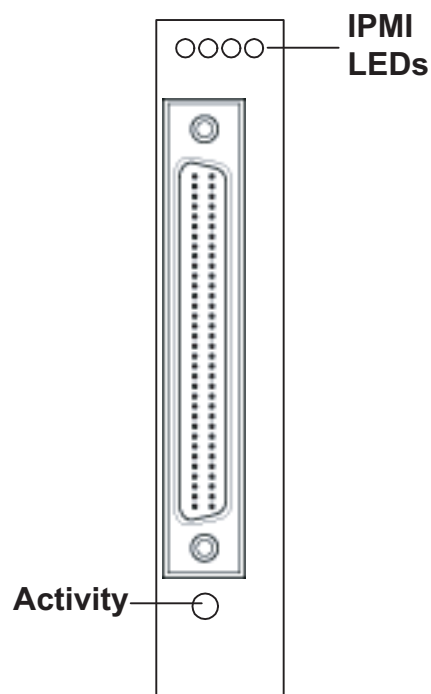
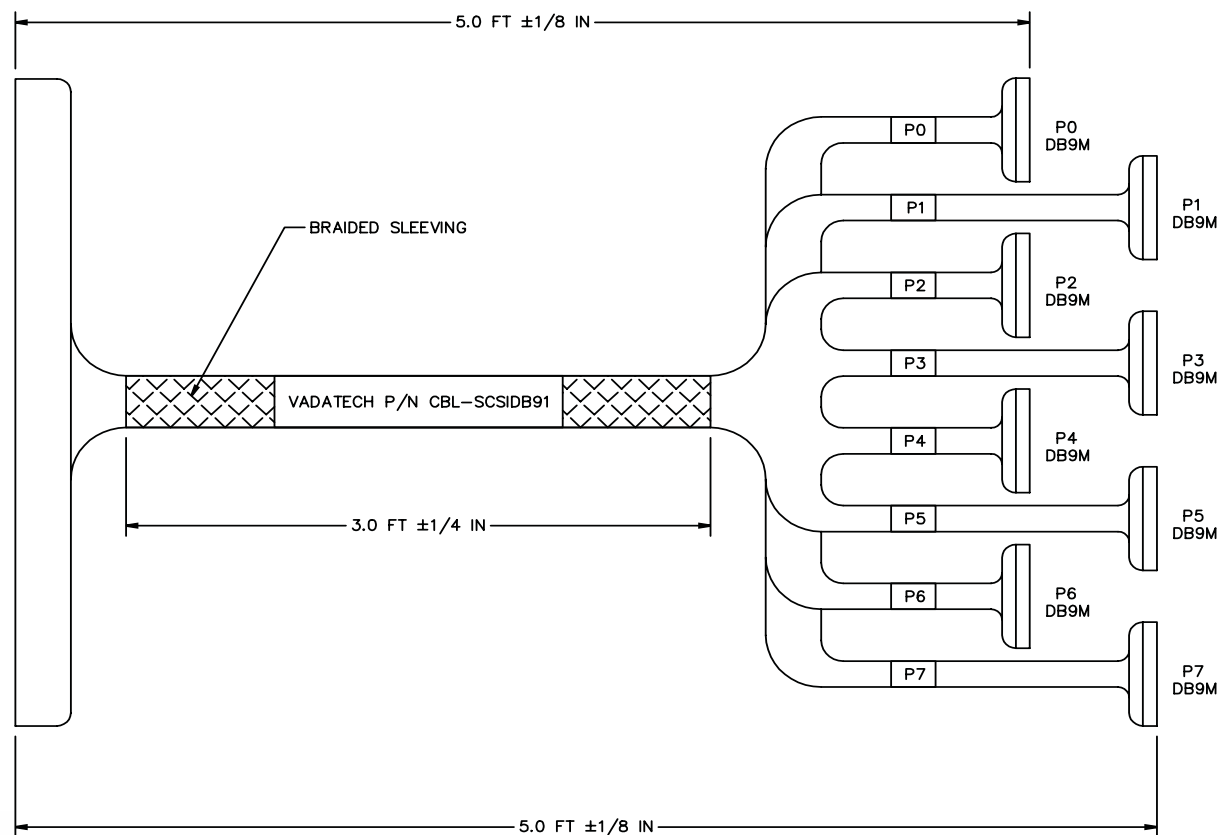


FIGURE 2. AMC300 Front Panel

# AMC Eight Port RS-232 Serial Adapter



**FIGURE 3.** Adapter Cable

## ORDERING OPTIONS

AMC300 - AOC - 000 - OHJ

### 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

### H = Operating Temp

- 0 = Commercial
- 1 = Reserved
- 2 = Industrial

### J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic