AMC994 – 8 LVDS Expansion Module via RJ-45, 8 Tx/Rx Pairs

KEY FEATURES

- 8 LVDS pairs
- Any of the pairs could be configured as transmit or receive
- Ports 12-15 or 17-20 (as LVDS)
- Ports are routed to two RJ-45
- Single-module mid-size (option for full-size)

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 AMC994 routes 8 LVDS Transmit/Receive lines from AMC ports 12-15 or 17-20 to the front via dual RJ-45 connectors. Each of the individual pairs could be configured as input or output. The module allows expansion via the front panel to other modules.

The module follows AMC.0 specification.
AMC994 – LVDS Expansion Module via RJ-45, 8 Tx/Rx Pairs

BLOCK DIAGRAM

Ports 12-15 or 17-20 (8 PAIRS)

LVDS CROSS BAR SWITCH
(Any pair could be configured as input or output)

FRONT PANEL

RS-232

IPMI

Micro USB

RJ-45

RJ-45

AMC994

RS-232

vadatech

www.vadatech.com

info@vadatech.com
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
<th>Physical</th>
<th>Dimensions</th>
<th>Single module, mid-size (full-size option available)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Width: 2.89” (73.5 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depth: 7.11” (180.6 mm)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>AMC LVDS</td>
<td>8 Pairs of LVDS which can be configured individually as input or output</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Power</th>
<th>AMC994</th>
<th>2 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Temperature</td>
<td>Operating temperature: –5° to +55° C (industrial versions also available) (See environmental spec sheet)</td>
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<tr>
<td></td>
<td>Storage temperature: –40° to +85° C</td>
<td></td>
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<tr>
<td></td>
<td>Vibration</td>
<td>Operating 9.8 m/s² (1G), 5 to 500 Hz</td>
<td></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 percent, non-condensing</td>
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</tr>
<tr>
<td>Front Panel</td>
<td>Interface Connectors</td>
<td>8 LVDS via two RJ-45</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical</td>
<td>Hot swap ejector handle</td>
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</table>

<table>
<thead>
<tr>
<th>Other</th>
<th>MTBF</th>
<th>MIL Handbook 217-F@TBD Hrs</th>
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<tr>
<td></td>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications where applicable</td>
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<tr>
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<td>Compliance</td>
<td>PICMG 3.0 Rev 3.0, RoHS 2 and NEBS Level 3.</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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<tr>
<td></td>
<td>Warranty</td>
<td>Two (2) years</td>
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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

AMC994 – A0C – 000 – 00J

A = Ports
0 = 17-20
1 = 12-15

J = Temperature Range and Coating
0 = Commercial, No coating
1 = Commercial, Humiseal 1A33 Polyurethane
2 = Commercial, Humiseal 1B31 Acrylic
3 = Industrial, No coating
4 = Industrial, Humiseal 1A33 Polyurethane
5 = Industrial, Humiseal 1B31 Acrylic
6 = Military, Humiseal 1A33 Polyurethane*
7 = Military, Humiseal 1B31 Acrylic*

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

*Edge of module for conduction-cooled boards

RELATED PRODUCTS

AMC592
FPGA Carrier for FMC, Kintex UltraScale

AMC527
FPGA Carrier for FMCs, Virtex-7

VT815
9U μTCA.0/ μTCA.4 Chassis, 12 AMCs

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