

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

8 LVDS Expansion, RJ-45



### 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

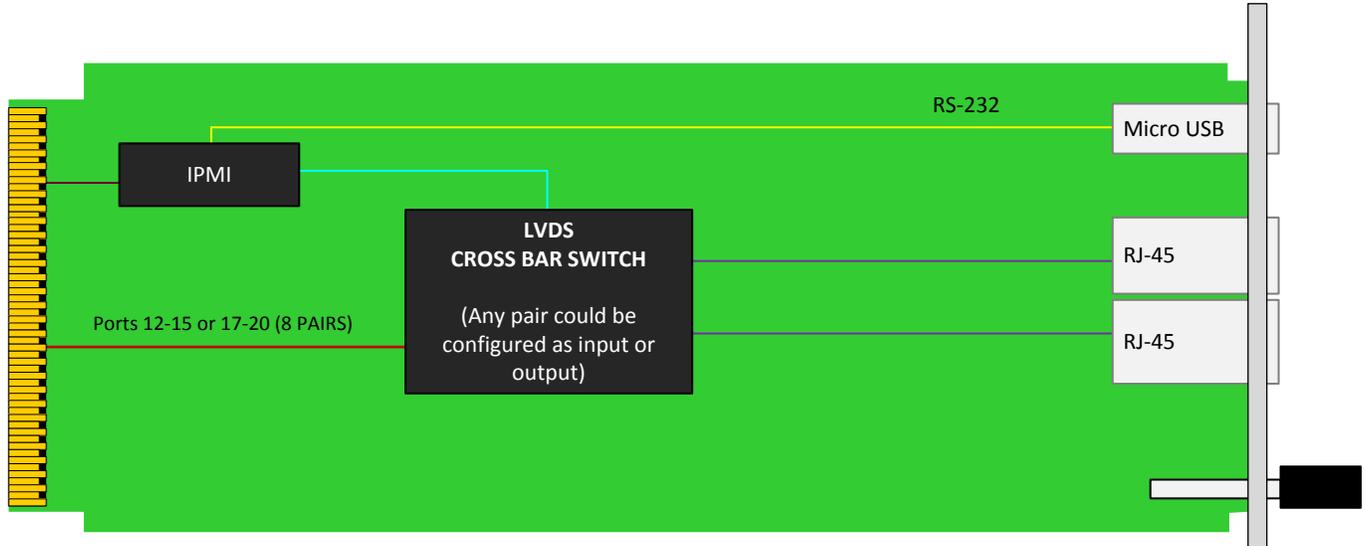
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

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.

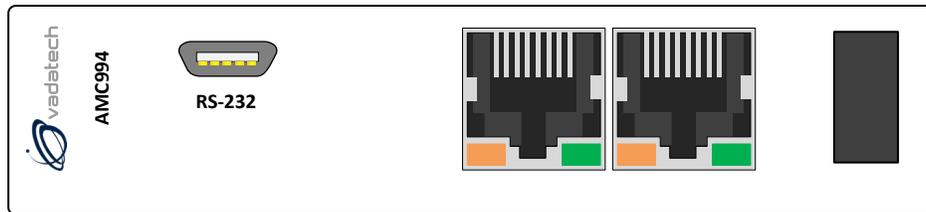
The module follows AMC.0 specification.

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## BLOCK DIAGRAM



## FRONT PANEL



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## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size option available) Width: 2.89" (73.5 mm) Depth: 7.11" (180.6 mm)
Type	AMC LVDS	8 Pairs of LVDS which can be configured individually as input or output
Configuration		
Power	AMC994	2 W
Environmental	Temperature	Operating temperature: -5° to +55° C (industrial versions also available (See <a href="#">environmental spec sheet</a> ) Storage temperature: -40° to +85° C
	Vibration	Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz
	Shock	30Gs on each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	Interface Connectors	8 LVDS via two RJ-45 MGT RS-232 via micro USB
	Mechanical	Hot swap ejector handle
Software Support	Operating System	Not applicable
Other		
MTBF	MIL Handbook 217-F@TBD Hrs	
Certifications	Designed to meet FCC, CE and UL certifications where applicable	
Compliance	PICMG 3.0 Rev 3.0, RoHS 2 and NEBS Level 3.	
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  $\mu$ TCA 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

#### C = Front Panel Size

- 1 = Reserved
- 2 = Mid-size
- 3 = Full-size

#### 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\*

\*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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