

VT073

Double Tongue Backplane for AMC Modules



VT073

Key Features

- Double tongue AMC backplane
- Tongue 2 provides additional power for high performance modules
- Provides +12V and Management Power to the AMC Module
- Port 0 and 1 are routed to the GbE PHY
- Three M3 Mounting holes to mate to any frame size

Benefits

- Low-cost test/dev board for AMC modules
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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The VT073 is a double tongue backplane which allows any AMC.1, AMC.2, AMC.3 or AMC.4 to be utilized. The board is ideal for low-cost testing/development of high-performance AMC modules that require extra power via tongue 2.

The VT073 requires +12V input power (connector part number 1586039-6 from TE) applied from an external power supply.



Figure 1: VT073



Figure 2: VT073

Block Diagram

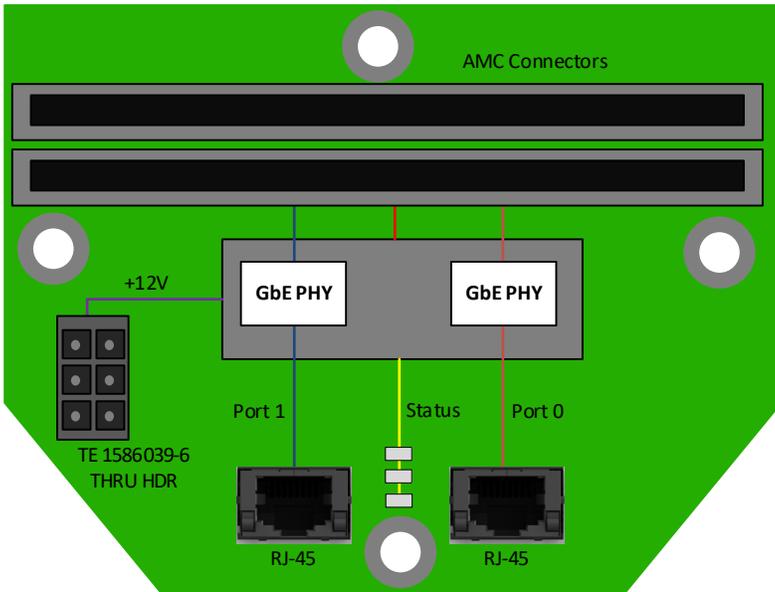


Figure 3: VT073 Functional Block Diagram

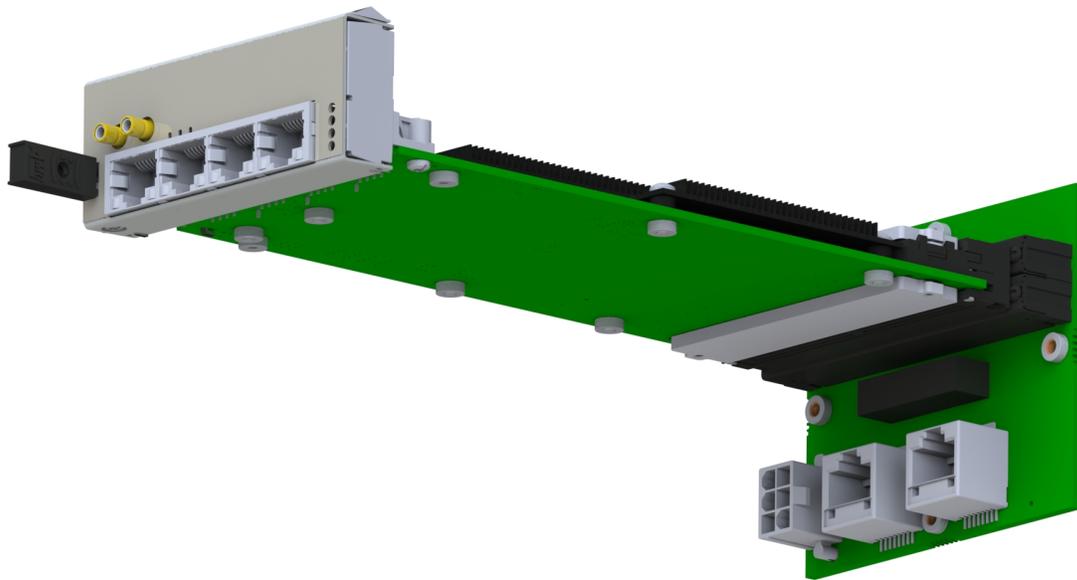


Figure 4: VT073 fitted to an AMC module

Specifications

Architecture	
Physical	Dimensions Width: 3" (76.2 mm) Length: 1.75" (44.45 mm)
Type	Backplane Single slot with tongue 2
Standards	
AMC	PICMG AMC.0
Configuration	
Power	VT073 2W
Environmental	Temperature See Ordering Options Storage Temperature: -40° to +90°C
	Vibration Operating 9.8 m/s ² (1G), 5 to 500 Hz on each axis
	Shock Operating 30G each axis
	Relative Humidity 5 to 95% non-condensing
Front Panel	Interface Connectors x2 RJ-45 for GbE 12V power supply connector
	LEDs Payload power, Management power and PCIe Lane Good
Other	
MTBF	MIL Hand book 217-F@ TBD hrs
Certifications	Designed to meet FCC, CE and UL certifications, where applicable
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
Warranty	Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

VT073 – 000-000-0HJ

		H = Temperature Range 0 = Commercial 1 = Reserved
		J = Conformal Coating 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

AMC596



- Xilinx Ultra Scale XCVU440 w/ QoriQ PPC2040
- 8 GB of DDR4 (single bank of 64-bits)
- 20 SERDES lanes optionally routed to Tongue 2

AMC750



- Processor AMC Intel® Xeon E5-2648L v4
- PCIe Gen 3 on Ports 4-7 and 8-11(AMC.1)
- x16 PCIe Gen 3 via Tongue 2, optional PCIe to Ports 12-15, 17-20

VT884



- Twelve mid-size single module AMC slots (option for double-width modules)
- Dual MicroTCA Carrier Hub (MCH)
- PinoutPlus™ support, 2nd tongue on all AMC slots

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