

AMC XLAUI/XFI to QSFP+ Interface for 40G/10G – AMC233



KEY FEATURES

- Network interface board with dual QSFP+ ports
- AMC.2 compliant
- 40GbE or (4x) 10GbE via the QSFP+ ports
- XLPI-to-XLAUI/XFI operation
- EDC supporting SR4, LR4 and copper CR4
- Optional PCS 64B/66B scrambler/descrambler (in 4x 10G Mode)
- PRBS loopback
- OS independent

Benefits of Choosing VadaTech

- Dual QSFP+ ports on the front panel for 40GbE
- 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 AMC233 is a single-module, mid-size AdvancedMC™ (AMC) based on the AMC.2 specification (full-size option available). The AMC233 provides 40GbE or quad 10GbE via each of the two QSFP+ ports.

VadaTech AMC233 converts ports 4-7 and 8-11 from XLAUI or XFI to Fiber/Copper. This allows the ports to be uplink to other systems via front panel. The module allows mix of 40GbE and 10GbE mode per port.

The PRBS feature allows testing frequency-offset crosstalk between input path and output path.

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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.

BLOCK DIAGRAM

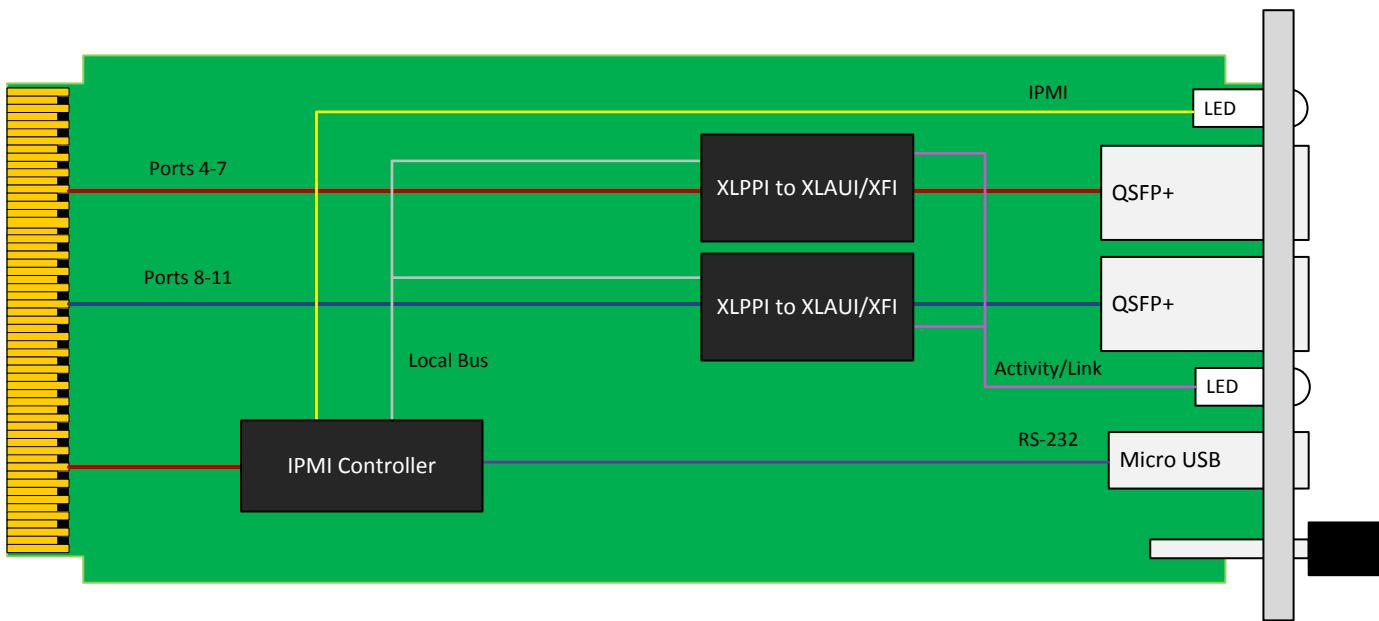


Figure 1: Block Diagram

FRONT PANEL

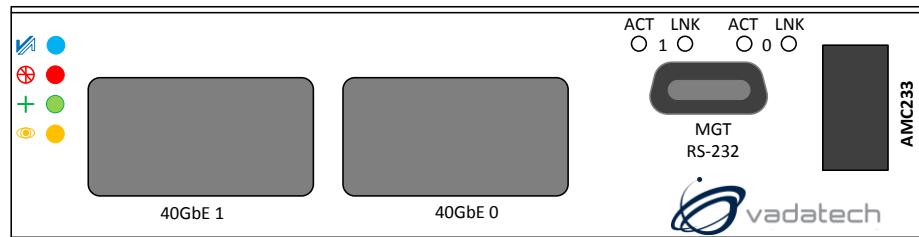


Figure 2: Front Panel

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size options available) Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Type		Ethernet XLPPI-to XLAUI/XFI
Standards		
AMC	Type	AMC.2
Module Management	IPMI	IPMI Version 2.0
Configuration		
Power	AMC233	6 W
Environmental	Temperature	Operating temperature: -5° to 55° C (air flow requirement of >200 LFM, industrial versions also available (See environmental spec sheet) Storage temperature: -40° to +85° C
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500 Hz
	Shock	30Gs on each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI management control
		Activity and Link
	Interface Connectors	Dual QSFP+
	Mechanical	Hot swap ejector handle
Software Support	Operating System	None
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	
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ORDERING OPTIONS

AMC233 – A0C – 000 – 0HJ

A = QSFP+ Transceivers

0 = No transceivers

1 = Dual SR transceivers

2 = Dual LR transceivers

C = Front Panel Size

1 = Reserved

2 = Mid-size

3 = Full-size

H = Operating Temperature

0 = Commercial (-5° to +55° C)

1 = Industrial (-20° to +70° C)

2 = Military (-40° to +85° C)*

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic

*Edge of module for conduction-cooled boards

RELATED PRODUCTS



VT866 40G
Chassis Platform



UTC004 40G
MCH



AMC517 Kintex-7
FPGA Carrier

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