

AMC233

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
- XLPP1-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

- 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 system supply from industry leader
- AS9100 and ISO9001 certified company



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AMC233

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.

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

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



Figure 1: AMC233

Block Diagram

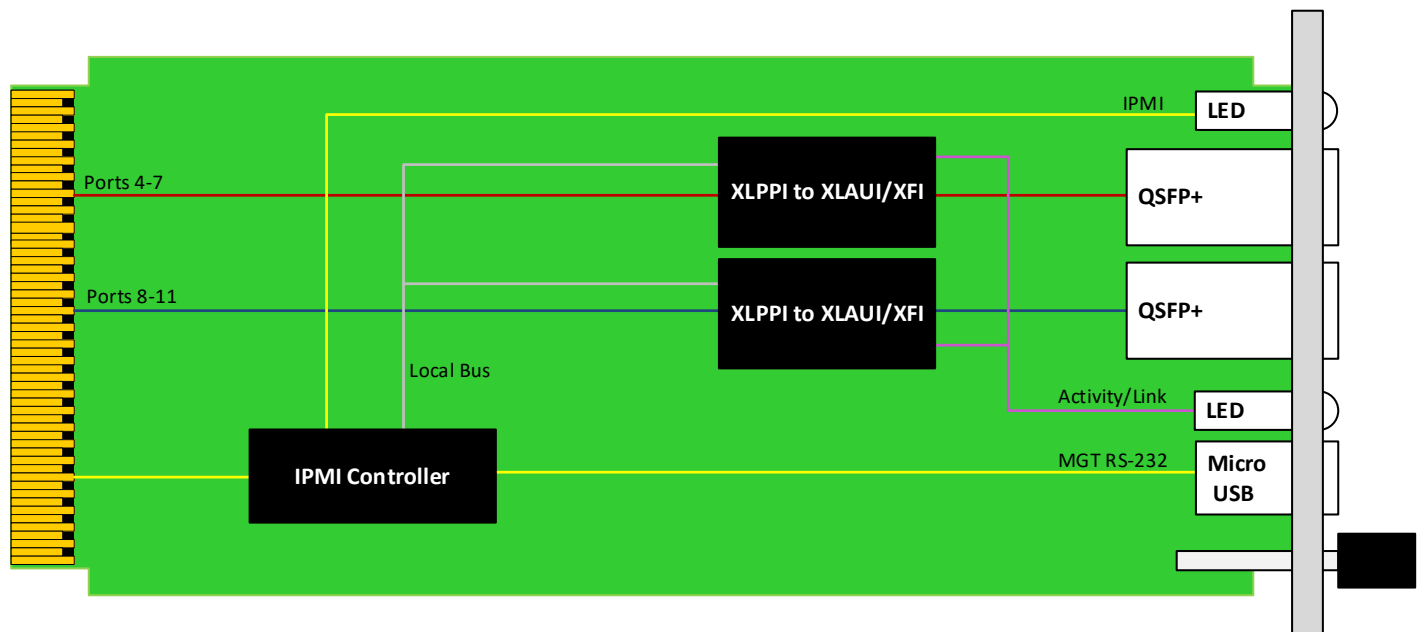


Figure 2: AMC233 Functional Block Diagram

Front Panel

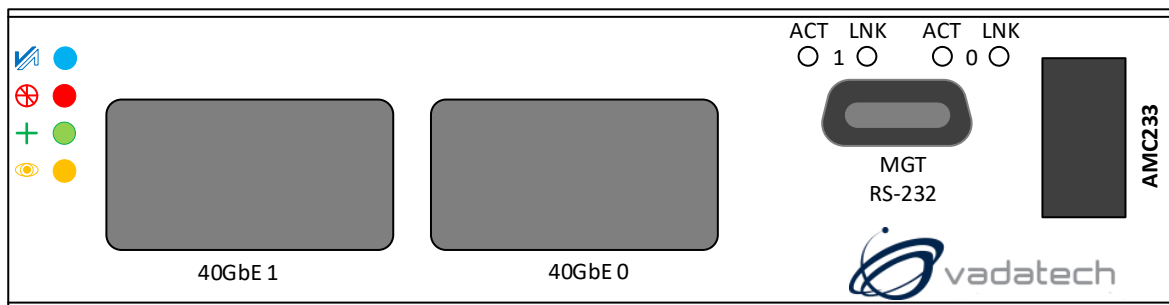


Figure 3: AMC233 Front Panel View

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 v2.0
Configuration		
Power	AMC233	6W
Environmental	Temperature	See Ordering Options and Environmental Spec Sheet
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500 Hz on each axis
	Shock	Operating 30G on each axis
	Relative Humidity	5 to 95% non-condensing
Front Panel	Interface Connectors	Dual QSFP+
		Micro USB for RS-232 (Management)
	LEDs	IPMI management control
		Activity and Link
	Mechanical	Hot-swap ejector handle
Software Support	Operating System	None
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

AMC233 – A0C-000-0HJ

A = QSFP+ TXCVRs		
0 = No TXCVRs 1 = Dual SR TXCVRs 2 = Dual LR TXCVRs		
		H = Operating Temperature
		0 = Commercial (–5° to +55°C) 1 = Industrial (–20° to +70°C) 2 = Extended (–40° to +85°C)*
C = Front Panel		J = Conformal Coating
1 = Reserved 2 = Mid-size 3 = Full-size 4 = Extended (8 HP) 5 = Reserved 6 = Mid-size, MTCA.1/4 7 = Full-size, MTCA.1/4 8 = Extended (8 HP), MTCA.1/4		0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Notes: *Conduction cooled; temperature is at edge of module. Consult factory for availability.

Related Products

AMC517



- AMC FPGA carrier for FMC per VITA 57
- Xilinx Kintex-7 410T FPGA in FFG-900 package with optional P2040
- Supported by DAQ Series™ data acquisition software

UTC004



- 1GbE base switch with dual 100/1000/10 G uplink
- Automatic fail-over with redundant UTC004s
- Full Layer 2 or 3 managed Ethernet switches

VT866



- MTCA System Platform 19" x 5U x 17"
- Full redundancy with dual MicroTCA Carrier Hub (MCH), dual Cooling Units and dual Power Modules
- Up to 12 AMCs in single width/full-size

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