

AMC240 – Dual KR/KR4 to QSFP+ Translation (40Gb/10Gb)

Dual Port QSFP+ Interface

Photo Coming Soon

KEY FEATURES

- 40/10 Gigabit Ethernet ports to front via dual QSFP+
- 10GBase-KR and 40GBase-KR to backplane
- Support for IEEE802.3ab and IEEE802.3ap
- AMC.2 compliant
- Single-module mid-size (option for full-size)

AdvancedMC™

Benefits of Choosing VadaTech

- 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

The AMC240 is a Dual port 40/10 Gigabit Ethernet (GbE) AdvancedMC (AMC) module. The AMC240 module supports 10GBase-KR and 40GBase-KR on ports 4-7 and 8-11. The module applies KR/KR4 FEC on a per port basis.

In the front the module has dual QSFP+ ports to allow dual 40GbE or Octal 10GbE via Fibre or Copper. The module has integrated CDR (Clock and Data Recovery) and EDC (Electronic Dispersion Compensations) on both transmit and receive paths. The EDC allows the unit to autonomously adapt and recover signals that have traversed through copper/optics media.

BLOCK DIAGRAM

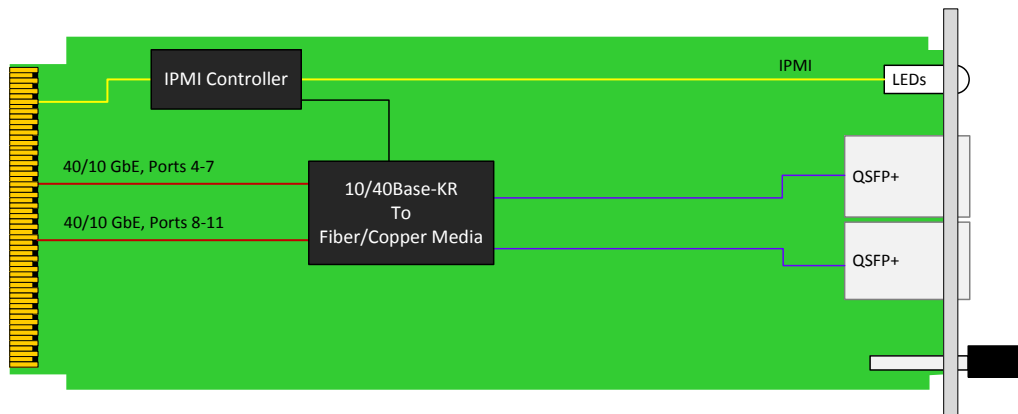


Figure 1: Block Diagram

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	AMC 40 GbE	2 port 40 GbE
Standards		
AMC	Type	AMC.2
Module Management	IPMI	IPMI Version 2.0
Configuration		
Power	AMC240	5 W (max without transceivers)
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/s² (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+ connectors
	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 μ 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

AMC240 – A0C – 000 – 00J

A = QSFP+ Transceivers

- 0 = None
- 1 = Dual SR
- 2 = Dual LR

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



VT866 5U μ TCA Chassis,
12 AMCs, 40 GbE



UTC004
3rd Gen MCH



AMC233
XLAUI/XFI to QSFP+ Interface, 40G/10G

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