

AMC240

Dual KR/KR4 to QSFP+ Translation (40GbE/10GbE), AMC



AMC240

Key Features

- 40GbE/10GbE Ports to front via dual QSFP+
- 10GBase-KR and 40GBase-KR to backplane
- Support for IEEE802.3ab and IEEE802.3ap
- Single module, mid-size AMC (full-size optional)

Benefits

- 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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AdvancedMC™



AMC240

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 Fiber 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.

See [Solution Brief](#) for an overview of a 56 GSPS digitizer with IRIGB/GPS timestamping.



Figure 1: AMC240

Block Diagram

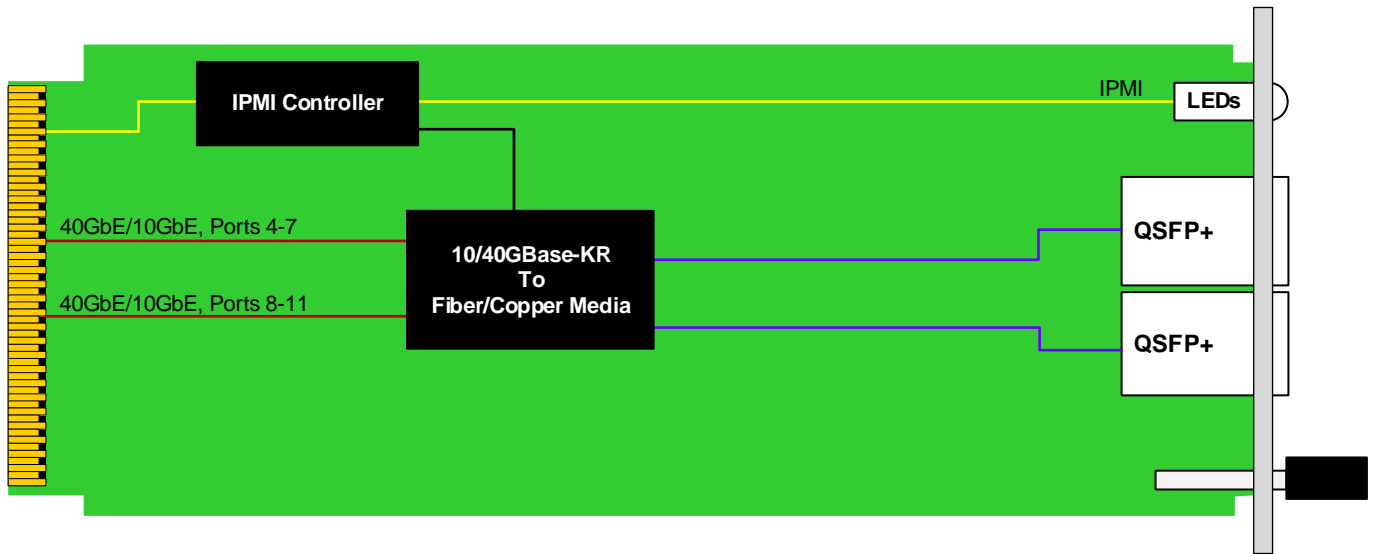


Figure 2: AMC240 Functional Block Diagram

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 40GbE 2 Port 40GbE
Standards	
AMC	Type AMC.2
Module Management	IPMI IPMI v2.0
Configuration	
Power	AMC240 5W (max without transceivers)
Environmental	Temperature See Ordering Options and Environmental Spec Sheet Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s ² (1G), 5-500 Hz Shock Operating 30Gs each axis Relative Humidity 5 to 95% non-condensing
Front Panel	Interface Connectors Dual QSFP+ connectors LEDs IPMI management Activity and Link Mechanical Hot-swap ejector handle
Software Support	Operating System N/A
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

AMC240 – A0C-000-00J

<p>A = QSFP+ TXCVRS</p> <p>0 = No TXCVRS 1 = Dual SR 2 = Dual LR 3 = LC Style CWDM (LM4 140 Meter) 4 = LC Style CWDM (LR4 2KM) 5 = LC Style CWDM (LR4 10KM)</p>		
<p>C = Front Panel Size</p> <p>1 = Reserved 2 = Mid-size 3 = Full-size</p>		<p>J = Temperature Range and Coating</p> <p>0 = Commercial (-5° to +55°C), No coating 1 = Commercial (-5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (-5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (-20° to +70°C), No coating 4 = Industrial (-20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (-20° to +70°C), Humiseal 1B31 Acrylic 6 = Extended (-40° to +85°C), Humiseal 1A33 Polyurethane* 7 = Extended (-40° to +85°C), Humiseal 1B31 Acrylic*</p>

Notes:

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

Related Products

AMC233



- Network interface board with dual QSFP+ Ports
- 40GbE or (4x) 10GbE via the QSFP+ Ports
- XLPPI-to-XLAUI/XFI operation

UTC004



- Unified 1 GHz quad-core CPU for MicroTCA Carrier Management Controller (MCMC), Shelf Manager, Clocking, and Fabric management
- Non-blocking PCIe Gen 3, SRIO Gen 2, 10GbE/40GbE, or Crossbar Switch option to AMC fat pipes with options for up to 40GbE uplink
- 1GbE base switch with dual 100/1000/10G uplink

VT866



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

Contact

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhua Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

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