

## 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.

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## BLOCK DIAGRAM

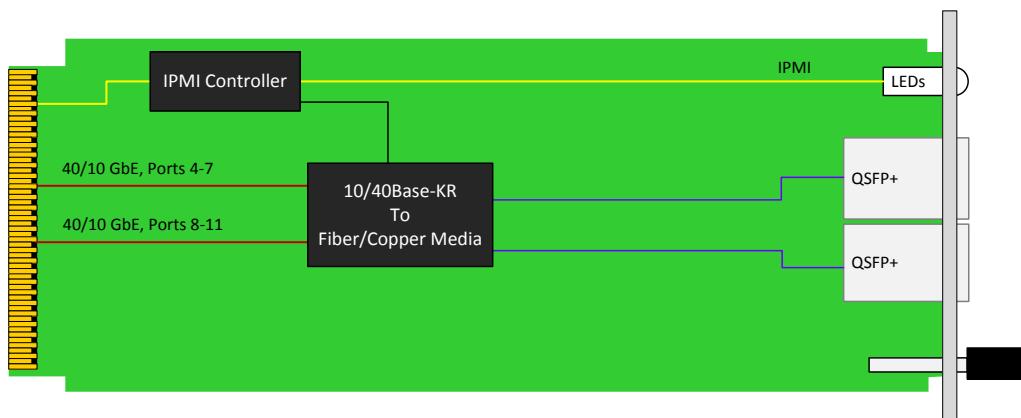


Figure 1: Block Diagram

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## SPECIFICATIONS

| Architecture      |   |  |
|-------------------|---|--|
| Physical          | Dimensions  | Single module, mid-size (full-size options available)<br>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 <a href="#">environmental spec sheet</a> )<br>Storage temperature: -40° to +85° C |
|                   | Vibration   | Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500 Hz   |
|                   | Shock   | 30Gs on each axis  |
|                   | Relative Humidity   | 5 to 95 percent, non-condensing  |
| Front Panel       | LEDs  | IPMI management control<br>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 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.

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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 μTCA Chassis,  
12 AMCs, 40 GbE



UTC004  
3rd Gen MCH



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

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