AMC245

Dual High performance 50/100GbE, Quad 25GbE or Octal 10GbE Host Bus Adapter, AMC



Key Features

- Dual 50/100GbE, 4 x 25GbE or 8 x 10GbE
- Dual QSFP28
- PCle Gen3 x16

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





AMC245

VadaTech AMC245 Host Bus Adapter (HBA) is a dual port 50/100Gb Ethernet. The module could be configured as 4 x25GbE or 8 x10GbE.

The 100 GbE is configurable as 100 GBASE-CR4 (5m twinax), 100 GBASE-SR4/CWDM4/PSM4 optical or as 100 GBASE-CR2 (3m twinax).

The 50GbE is configurable as 50GBASE-CR2 (5m twinax), 50GBASE-CR (802.3cd, 3m twinax) or as 50GBASE-SR/FR/LR (optical 802.3cd).

The 25GbE is configurable as (IEEE 802.3 by/cc), 25GBASE-CR (5m reach), 25GBASE-SR/LR (optical).

The 10GbE is configurable as octal 10GbE utilizing 7m twinax or optical 10BASE-SR/LR.

The module allows mix of 100G, 50G, 25G and 10G. Please contact VadaTech.



Figure 1: AMC245

Block Diagram

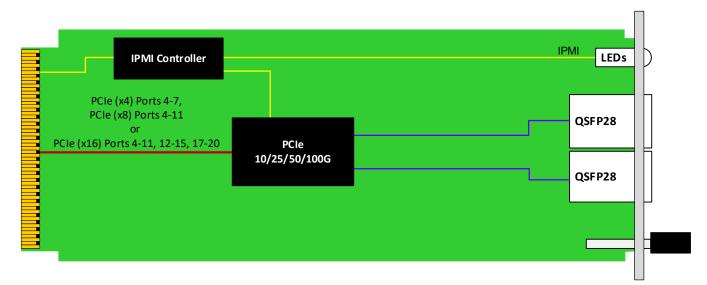


Figure 2: AMC245 Functional Block Diagram

Front Panel



Figure 2: AMC245 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)	
Туре	AMC 10/25/50/100GbE	Dual 50/100GbE, Quad 25GbE or Octal 10GbE	
Standards			
AMC	Туре	AMC.2	
Module Management	IPMI	IPMI v2.0	
Configuration			
Power	AMC245	20W	
Environmental	Temperature	See Ordering Options and Environmental Spec Sheet	
		Storage Temperature: –40° to +85°C	
	Vibration	Operating 9.8 m/s2 (1 G), 5-500 Hz	
	Shock	Operating 30Gs each axis	
	Relative Humidity	5 to 95% non-condensing	
Front Panel		Dual QSFP28 connectors	
	LEDs	IPMI management	
		Activity and Link	
		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 ISO9001:2000 and AS9100B:2004 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 preconfigured Application-Ready Platforms. Please contact VadaTech Sales for more information.

Ordering Options

AMC245 - ABC-D00-00J

A = QSFP+ TXCVR A	D = PCle Interface	
0 = No TXCVRs 1 = 40G Dual SR (quad 10GbE) 2 = 40G Dual LR (quad 10GbE) 3 = 100G Dual SR 4 = 100G Dual LR 5 = Reserved	0 = PCle (x4) on Ports 4-7 1 = PCle (x8) on Ports 8-11 2 = PCle (x16) Ports 4-11, 12-15, 17-20	
B = QSFP+ TXCVR B		
0 = No Transceivers 1 = 40G Dual SR (quad 10GbE) 2 = 40G Dual LR (quad 10GbE) 3 = 100G Dual SR 4 = 100G Dual LR 5 = Reserved		
C = Front Panel Size		J = Temperature Range and Coating
1 = Reserved 2 = Mid-size 3 = Full-size		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*

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

Related Products



- Network interface board with dual QSFP+ Ports
- 40GbE or (x4) 10GbE via the QSFP+ Ports
- XLPPI-to-XLAUI/XFI operation



- 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



- 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

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- · Partnerships power innovation
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- · Mutual success

We deliver complexity

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- · System management
- · Configurable solutions

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- · Agile production
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