

AMC237 – Four Port Gigabit Ethernet AMC

Four Port GbE



KEY FEATURES

- AMC.1 compliant
- Single-module, half-size (option for mid-size and full-size)
- 4 Gigabit Ethernet ports via RJ-45
- PCIe Gen2 x4 lanes to Ports 4-7 (option via dip-switch for Ports 8-11)
- IPMI 2.0 compliant
- RoHS compliant

Benefits of Choosing VadaTech

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC237 is a 4 port Gigabit Ethernet (GbE) AdvancedMC™ (AMC) module. VadaTech offers this product in a single module, half-size (option for mid-size and full-size) form factor based on the AMC.1 specification.

The AMC237 is based on the latest Intel® Gigabit Ethernet controller (82580 chip).

BLOCK DIAGRAM

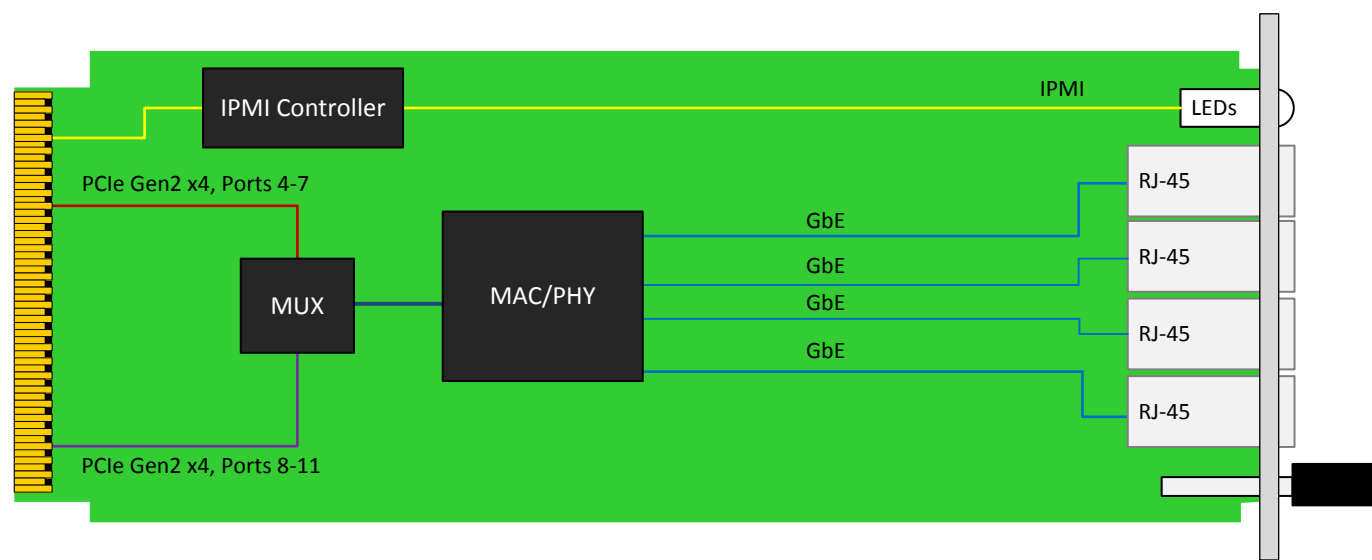


Figure 1: Block Diagram

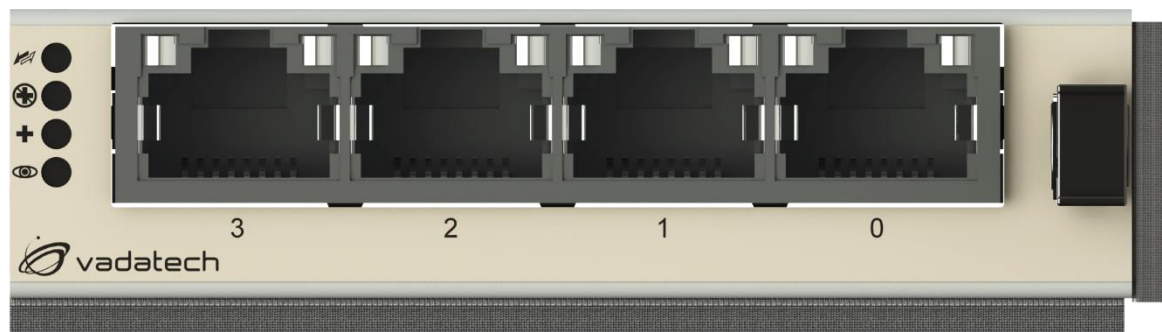


Figure 2: Front Panel

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 GbE	Four port GbE, 10/100/1000 Mbps operation - Copper
		IP, TCP, and UDP checksum offload capabilities, Stateless offloads (Header split, RSS)
		UDP/TCP transmit segmentation Offload (TSO), SCTP receive and transmit checksum offload
Standards		
AMC	Type	AMC.0 and AMC.1
Module Management	IPMI	IPMI Version 2.0
Configuration		
PCIe	Lanes	Gen2 x4
Power	AMC237	5 W (max)
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
Front Panel	Relative Humidity	5 to 95 percent, non-condensing
	LEDs	IPMI management control
		Activity and Link
		Interface Connectors
Software Support	Mechanical	Hot swap ejector handle
	Operating System	Linux, Windows, Solaris and VxWorks
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	

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ORDERING OPTIONS

AMC237 – 00C – 000 – 0HJ

C = Front Panel Size

- 1 = Half-size
- 2 = Mid-size
- 3 = Full-size

H = Operating Temperature

- 0 = Commercial (-5° to +55° C)
- 1 = Industrial (-20° to +70° C)
- 2 = Military (-40° to +80° C)*

J = Conformal Coating

- 0 = None
- 1 = Humiseal 1A33 Polyurethane
- 2 = Humiseal 1B31 Acrylic

*Edge of module for conduction-cooled boards

RELATED PRODUCTS



VT841 1U
Chassis Platform



UTC004 Gen 3
MCH



UTC020 1000W
Power Module

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