

AMC613

Network Attached Storage (NAS) AMC with Quad M.2 NVMe Storage



AMC613

Key Features

- Network Attached Storage (NAS) AMC Module
- Quad Core ARM at 1.8GHz per core with 8GB of DDR-4 Memory
- Quad NVMe M.2 Storage devices
 - Configurable as RAID 0 or RAID 1
- Dual 10GbE (ports 4 and 8 or 4-7 or 8-11 as XAUI)
- Dual GbE (ports 0 and 1)
- GbE to the front
- AMC.2 specification
- Single module mid-size or full-size per AMC.0
- IPMI 2.0 compliant

Benefits

- Multi-Terabit storage capacity in a single module AMC form factor carrier
- NVMe performance
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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AMC613

The AMC613 is fully compliant as a NAS (Network Attached Storage) device with M.2 NVMe storage which provides high speed and low latency read/write to the SSD devices.

The module has on board quad core ARM processor running at 1.8GHz per core with 8GB of DDR-4. The module boots from on board memory and allows the entire Storage Device to be utilized for NAS. The AMC613 routes 10GbE to ports 4 and 8 or 10GbE as XAUI to ports 4-7 and 8-11.

The module support RAID 0 or RAID 1 configuration for the Quad M2. Storage.

The AMC613 is available in both air-cooled (MTCA.0 and MTCA.1) and rugged conduction-cooled versions (MTCA.2 or MTCA.3, contact sales for details).



Figure 1: AMC613



Figure 2: AMC613 Conduction Cooled

Block Diagram

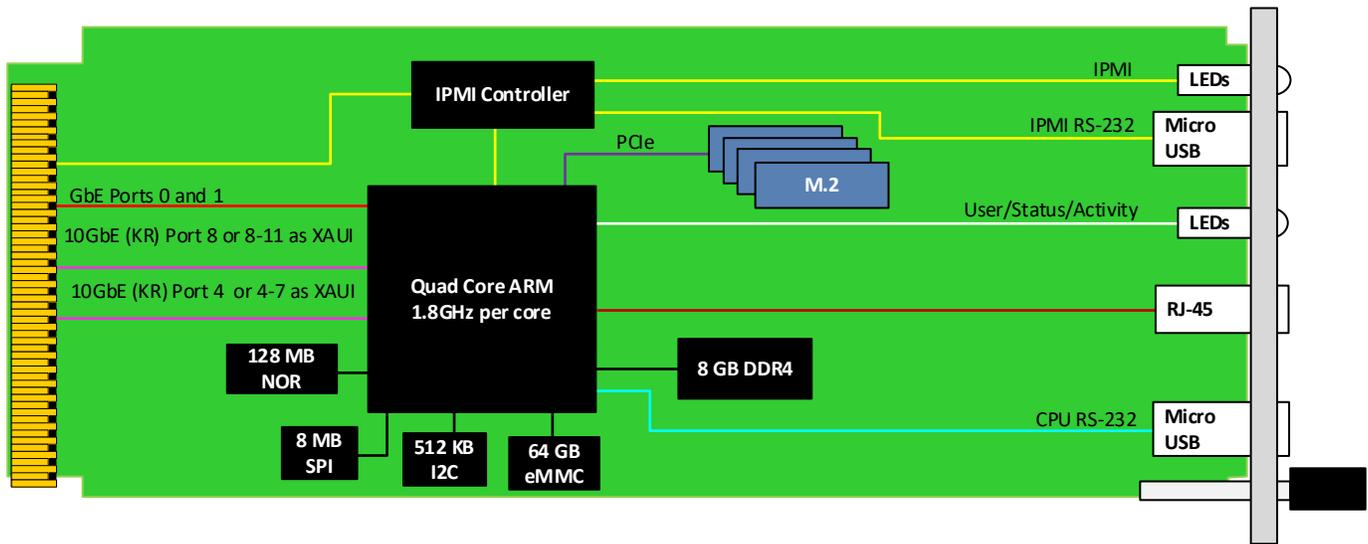


Figure 3: AMC613 Functional Block Diagram

Front Panel



Figure 4: AMC613 Front Panel

Specifications

Architecture		
Physical	Dimensions	Single module, mid-size or full-size optional Width: 2.89" (73.5 mm) Depth 7.11" (180.6 mm)
Type	AMC Storage	Quad M.2 NVMe
Standards		
AMC	Type	AMC.2
Module Management	IPMI	IPMI v2.0
10GbE	Lanes	2X 10GbE
Storage	SSD	Over 8TB of Storage
Configuration		
Power		13W with no Storage
Environmental	Temperature	See Ordering Options and Environmental Spec Sheet Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500 Hz on each axis
	Shock	Operating 325 G/2 ms, 160 G/1 ms
	Relative Humidity	5 to 95% non-condensing
Front Panel	Interface Connectors	Micro USB connector for MGT RS-232 Quad M.2 (Internal)
	LEDs	IPMI Management Control Activity
	Mechanical	Hot-swap ejector handle
Software Support	Operating System	Linux, Windows, Solaris and VxWorks
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

AMC613 – ABC-D00-00J

A = Total M.2 Storage	D = M.2 Encryption	
0 = None 1 = 4 TB (Quad 1TB modules) 2 = 8 TB (Quad 2TB modules) 3 = 4 TB (Dual 2TB modules) 4 = 2 TB (Dual 1TB modules) 5 = Reserved	0 = None 1 = Encryption capable	
B = Ports 4-7/8-11		
0 = No connection on ports 1 = XAUI (ports 4-7 and 8-11) 2 = 10GbE on ports 4 and 8		
C = Front Panel		J = Temperature Range and Coating
1 = Reserved 2 = Mid-size 3 = Full-size 4 = Reserved 5 = Mid-size, MTCA.1 (captive screw) 6 = Full-size, MTCA.1 (captive screw)		0 = Commercial (–5° to +45°C), No coating 1 = Commercial (–5° to +45°C), Humiseal 1A33 Polyurethane 2 = Commercial (–5° to +45°C), Humiseal 1B31 Acrylic 3 = Reserved 4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic

Related Products

VT950



- MicroTCA rugged 1U 19" rackmount chassis platform
- Meets MIL-STD-810F, MIL-STD-901D for shock/vibration
- Meets MIL-STD-461E for EMI

AMC626



- HBA for external SATA 3 (6.0 Gbps) or SAS-3 (12 Gbps) drives
- AMC.1 compliant, PCIe Gen3 x8 or x4
- Support for 8 SAS/SATA Ports

AMC629



- HBA for external SATA 3 (6.0 Gbps) or SAS-3 (12 Gbps) drives
- Conduction cooled version available
- Integrated RAID 0, 1, 1E, and 10

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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