

AMC719

QorIQ P4040/P4080 Processor AMC, SRIO



AMC719

Key Features

- Processor AMC with Freescale QorIQ P4040/P4080
- Up to 16 GB DDR3 with ECC
- SRIO on ports 4-7 and 8-11 per AMC.4
- GbE per AMC.2
- Dual 10GbE via SFP+
- Single-module, mid-size per AMC.0

Benefits

- High-performance QorIQ P40x0 processor
- Multiple banks of memory allows large buffer sizes and queuing during processing
- SRIO dual x4 to backplane and 10GbE to front panel supports high-throughput communications
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Full system supply from the industry leader

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AMC719

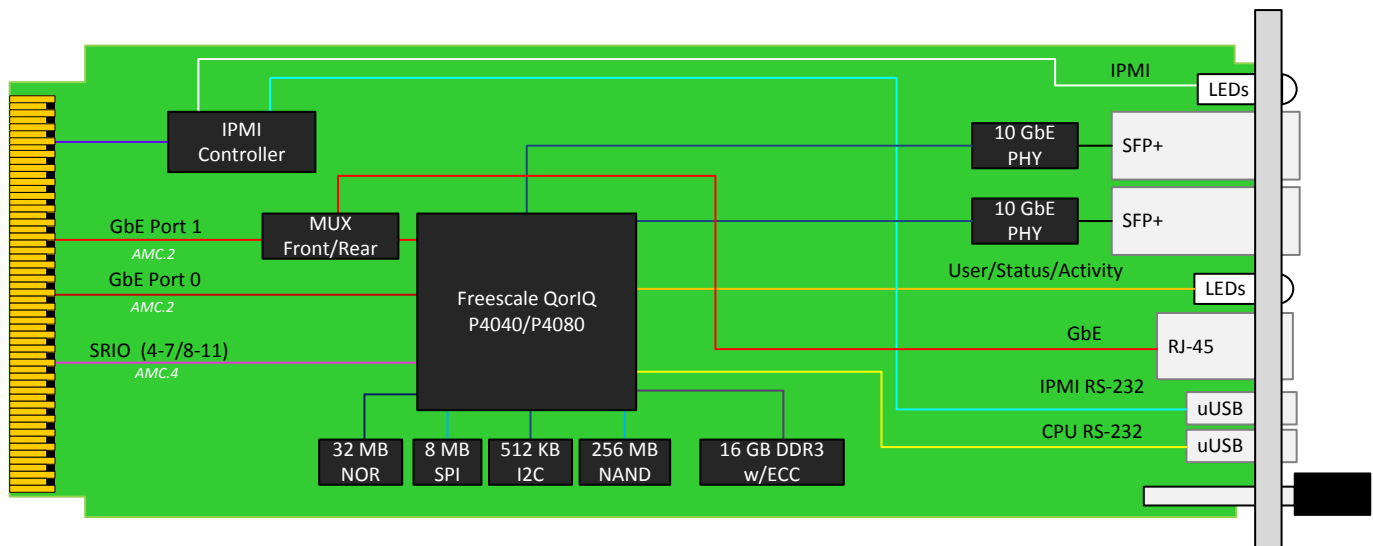
The AMC719 is a Processor AMC (PrAMC) in a single-module, mid-size (full-size optional) AdvancedMC (AMC) form factor based on the Freescale P4040 and P4080. The module follows the AMC.4 and AMC.2 specifications. The SRIO runs as dual x4. The module has option for up to 16 GB of DDR3 memory with ECC.

The AMC719 provides Dual 10GbE via SFP+.

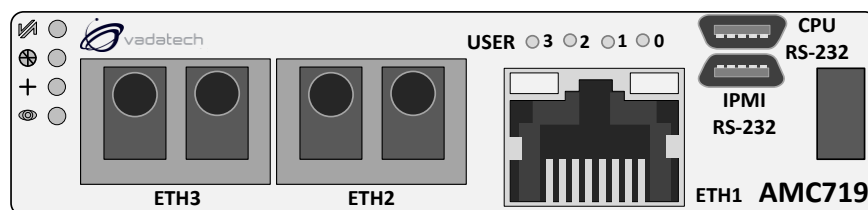
The module provides Dual GbE to the rear per AMC.2 specification on ports 0 and 1. It has single GbE to the front which is muxed with port 1.



Block Diagram



Front Panel



Specifications

Architecture		
Physical	Dimensions	Single module, mid-size (full-size optional)
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type		Freescale QorIQ P4040 or 4080 processor up to 1.5 GHz Up to 16 GB DDR3 with ECC
Standards		
AMC	Type	AMC.0, AMC.2 and AMC.4
Module Management	IPMI	IPMI version 2.0
SRIO	Lanes	Dual x4
Configuration		
Power	AMC719	~35 W (P4080 @ 1.5 GHz)
	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial versions also available (See environmental spec sheet)
		Storage Temperature: -40° to +90°C
	Vibration	Operating 9.8 m/s ² (1G), 5 to 500Hz on each axis
	Shock	Operating 325G / 2 ms, 160G / 1 ms
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	Single GbE via RJ-45, dual 10 GbE via SFP+
		CPU RS-232 via micro USB
		IPMI RS-232 via micro USB
	LEDs	IPMI management control
		Activity / Link and User LEDs
	Mechanical	Hot swap ejector handle
Software Support	Operating System	Linux and VxWorks
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and μ TCA 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

AMC719 – ABC-0EF-0HJ

A = CPU Speed		
1 = P4040 @ 1.2 GHz 2 = P4040 @ 1.5 GHz 3 = P4080 @ 1.2 GHz 4 = P4080 @ 1.5 GHz		
B = DDR3 with ECC Memory	E = SFP+ Transceiver Port 0	H = Operating Temperature
0 = 4 GB 1 = 8 GB 2 = 16 GB	0 = None 1 = 10GBASE-SR 2 = Reserved 3 = 10GBASE-LRM 4 = 10GBASE-LR	0 = Commercial 1 = Industrial
C = Front Panel Size	F = SFP+ Transceiver Port 1	J = Conformal Coating
1 = Reserved 2 = Mid-size, MTCA.0 3 = Full-size, MTCA.0 4 = Reserved 5 = Mid-size, MTCA.1 (captive screws) 6 = Full-size, MTCA.1 (captive screws)	0 = None 1 = 10GBASE-SR 2 = Reserved 3 = 10GBASE-LRM 4 = 10GBASE-LR	0 = None 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic

Related Products

AMC610



- AMC.1 and AMC.3
- 4 Gigabit Ethernet ports via RJ-45
- On board 2.5" disk with direct connect to Ports 2 and 3

UTC002



- 400 MHz CPU with 64 MB DDR for MCMC (MicroTCA Carrier Management Controller) and Shelf Manager
- Layer 2 managed GbE to each AMC (optional)
- Non-blocking PCIe Gen 3 (x4), to each slot with option for SRIO or 10 GbE (Layer 2 managed)

UTC010



- Dual -36 VDC to -75 VDC input,
- 792W (available in 396W)
- Hot swappable with support for power module redundancy

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