

## AMC710C – PrAMC based on QorIQ P4040/P4080, 10 GbE

PrAMC, 10 GbE



### KEY FEATURES

- Single module, mid-size per AMC.0
- Conduction cooled version available
- Freescale QorIQ P4040/P4080 processor
- XAUI x4 on ports 4-7 (AMC.2)
- Single 10GbE SFP+ to the front panel
- Up to 16 GB of DDR3 w/ ECC
- IPMI 2.0 compliant

**AdvancedMC™**

### Benefits of Choosing VadaTech

- Flexible network processing engine
- 10 GbE data path from front panel to backplane
- Strong mil/aero support
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

The AMC710 is a flexible processor AMC for general purpose processing with the quad-core QorIQ P4040/P4080 with Data Path Acceleration Architecture intended for router and UTM (unified threat management) applications.

XAUI is routed to ports 4-7 and a front-panel SFP+ supports 10 GbE, the unit architecture is balanced to provide a 10G front-to-back connectivity.

The module is available as AMC710C for rugged conduction-cooled (MTCA.2 or MTCA.3) applications.



AMC710C

BLOCK DIAGRAM

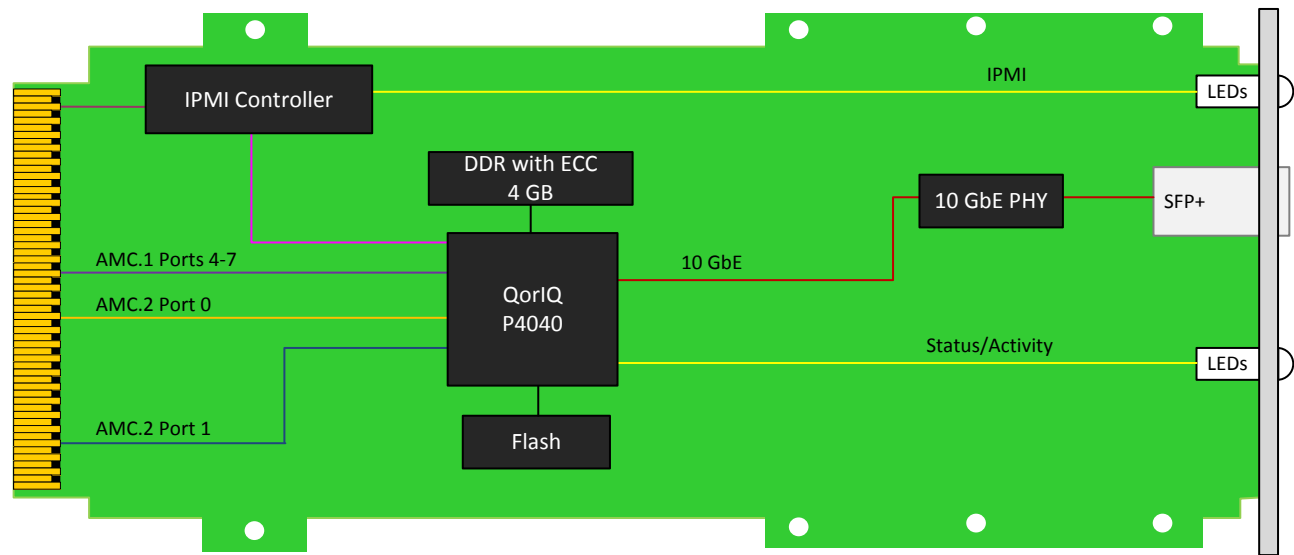


Figure 4: AMC710C Functional Block Diagram

FRONT PANEL

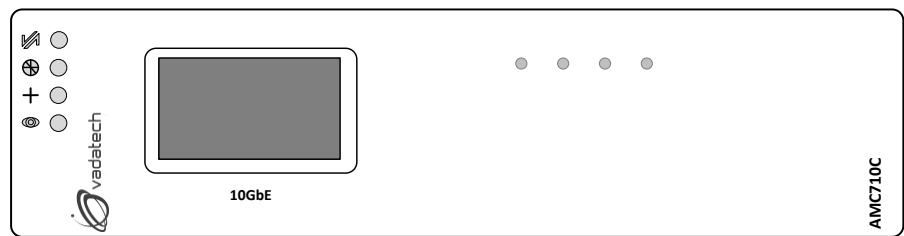


Figure 1: AMC710C Front Panel with Captive Clamshell (Option G = 0)



## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single module, mid-size (full-size optional)
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	AMC Processor	Freescale P4040/P4080
Standards		
AMC	Type	AMC.0, AMC.1 and AMC.2
Module Management	IPMI	IPMI version 2.0
XAUI	Lanes	10GbE
Configuration		
Power	AMC710	~35W
Environmental	Temperature	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See <a href="#">environmental spec sheet</a> )
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s <sup>2</sup> (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	GbE via RJ-45 (air-cooled only)
		10 GbE via SFP+
		USB 2.0
	LEDs	IPMI management control
		Activity / Link user LEDs
	Mechanical	Hot swap ejector handle
Software Support	Operating System	Linux (consult factory for VxWorks, Windows, or other options)
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  $\mu$ 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

## COMMON CONFIGURATIONS

### AMC710C – ABC – 0E0 – GHJ

#### A = CPU Speed

- 1 = 1.2 GHz
- 2 = 1.5 GHz
- 3 = Reserved
- 4 = Reserved

#### B = CPU

- 0 = P4040
- 1 = P4080

#### C = Front Panel Size

- 0 = Reserved
- 1 = Reserved
- 2 = Mid-size
- 3 = Full-size

#### E = SFP+ Transceiver

- 0 = None
- 1 = 10GBASE-SR
- 2 = Reserved
- 3 = Reserved
- 4 = 10GBASE-LR

#### G = Clamshell

- 0 = Captive
- 1 = MTCA.2 (MOQ required)
- 2 = MTCA.3 (MOQ required)

#### H = Temperature Range

- 0 = Commercial (–5 to +45° C)
- 1 = Industrial (–20 to +70° C)

#### J = Conformal Coating

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

## RELATED PRODUCTS



VT811 MicroTCA.4  
Chassis



AMC520 MicroTCA.4  
A/D Converter



UTC0018 Power  
Module (12HP)

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