PrAMC QorIQ P2040 and P2041

AMC711

vadatech inc
™ THE POWER OF VISION

KEY FEATURES

- Single-width, mid-height (option for full-height) per AMC.0
- Processor AMC with Freescale™ QorIQ P2040 or P2041
- PCIe Gen2 on ports 4-11 for P2040/P2041 For P2041 option for XAUI on Ports 8-11
- Configurable as Host (Root Complex) or Agent
- Up to 8GBytes of DDR-III memory with ECC
- Dual GbE per AMC.2 specification on ports 0 and 1
- Dual GbE on the front panel
- 32Mbytes of NOR Flash
- 8Mbytes of SPI Flash and 512KB of I2C Flash
- 256 Mbytes of NAND Flash
- Up to 32GB FLASH via SDHC for storage
- IPMI 2.0 compliant
- RoHS compliant
- OS support for Linux and VxWorks

The AMC711 is a Processor AMC (PrAMC) in a single-width, mid-height AdvancedMC™ (AMC) form factor based on the Freescale P2040 or P2041. The module follows the AMC.1 and AMC.2 specifications. The PCIe interface is configurable as Host or Agent mode and it interfaces as dual x4 (ports 4-7 and 8-11). The P2041 has option to have ports 8-11 as XAUI (10GbE). The AMC711 has up to 8GBytes of DDR-III memory with ECC.

The AMC711 can provide single 10GbE via ports 8-11 with the P2041 option.

The AMC711 has Serial Over LAN (SOL) with a true hardware Random Number Generator.

The module provides Dual GbE to the rear per AMC.2 specification on ports 0 and 1. It has a dual GbE to the front.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

AdvancedMC™

VadaTech Incorporated • 11540 South Eastern Avenue, Henderson, NV 89052 • Tel: (702) 896-3337 • Fax (702) 896-0332
Email: info@vadatech.com • www.vadatech.com

SPECIFICATIONS

Architecture		
Physical	**Dimensions**	Single-Width, Mid-Height (Full-Height options)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Product Type	**AMC Processor**	Freescale P2040 (@ 1.2 GHz) and P2041 (@ 1.5GHz)
Standards		
AMC	**Type**	AMC.1 and AMC.2
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	Dual PCIe x4 or PCIe x4 and 10GbE (P2041 only)
Configuration		
Power	**AMC711**	26W with P2041 @ 1.5GHz
Environmental	**Temperature**	Operating Temperature: 0° to 60° C (Air flow requirement is to be greater than 600 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	Operating 9.8 m/s2 (1.0G), 5-500Hz
	Shock	Operating 325G/2ms, 160G/1ms
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**LEDs**	IPMI Management Control
		Activity/Link
		User LED
		Dual RJ-45
		CPU RS-232
		IPMI Management RS-232
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux and VxWorks
Other		
MTBF	MIL-217F Handbook > TBD MTTF 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	
Compliance	RoHS and NEBS	
Warranty	Two (2) years	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

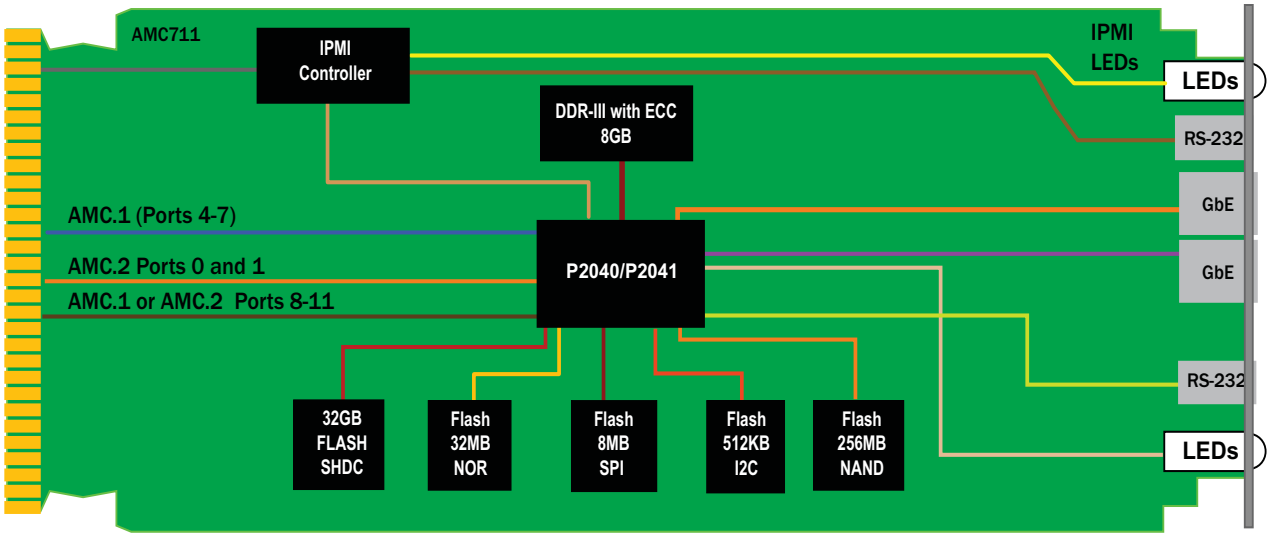
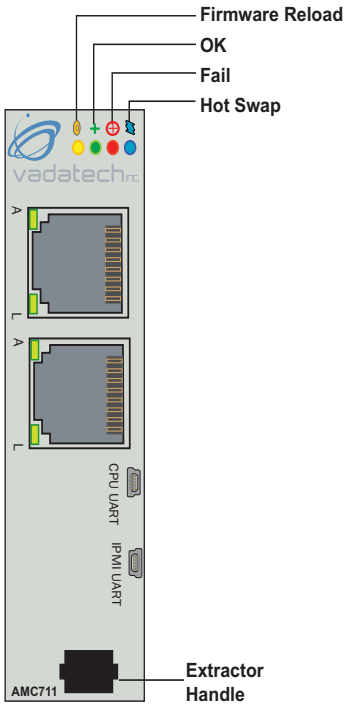


FIGURE 1. AMC711 Functional Block Diagram

FIGURE 2. AMC711 Front Panel



ORDERING OPTIONS

AMC711 - ABC - D00 - 0HJ

A = CPU Speed*

1 = P2040 @ 1.2GHz
2 = P2041 @ 1.5GHz

B = Ports 8-11

0 = PCIe
1 = XAUI**

C = Front Panel

1 = Reserved
2 = Mid-Height
3 = Full-Height

D = DDR-III ECC memory

0 = 4 GByte
1 = 8 GByte

H = Operating Temp

0 = Commercial
1 = Industrial

J = Conformal Coating

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

*For other speed grades contact VadaTech Sales

**Applies only to the P2041 processor

Document No. 4FM430-05 REV. 0I Date: October 2012, Pass one

vadatech inc
THE POWER OF VISION

VadaTech Incorporated • 11540 South Eastern Avenue, Henderson, NV 89052 • Tel: (702) 896-3337 • Fax (702) 896-0332
Email: info@vadatech.com • www.vadatech.com