PrAMC QorIQ P4040 and P4080

# AMC719

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## KEY FEATURES

- Single-width, mid-height (option for full-height) per AMC.0
- Processor AMC with Freescale™ QorIQ P4040 and P4080
- SRIO on ports 4-11
- Dual 10GbE with SFP+ interface
- Up to 16GBytes of DDR-III memory with ECC
- Dual GbE per AMC.2 specification on ports 0 and 1
- 32Mbytes of NOR Flash
- 8Mbytes of SPI Flash and 512KB of I2C Flash
- 256 Mbytes of NAND Flash
- IPMI 2.0 compliant
- RoHS compliant
- OS support for Linux and VxWorks

The AMC719 is a Processor AMC (PrAMC) in a single-width, mid-height 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 16GBytes of DDR-III 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.

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

AdvancedMC™

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## 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 P4040 and P4080 @ 1.2GHz or 1.5GHz |
| **Standards** | | |
| **AMC** | **Type** | AMC.2 and AMC.4 |
| **Module Management** | **IPMI** | IPMI Version 2.0 |
| **SRIO** | **Lanes** | Dual SRIO x4 |
| **Configuration** | | |
| **Power** | **AMC719** | 35W with P4080 @ 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 SFP+ |
| | | Single GbE via 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 | |
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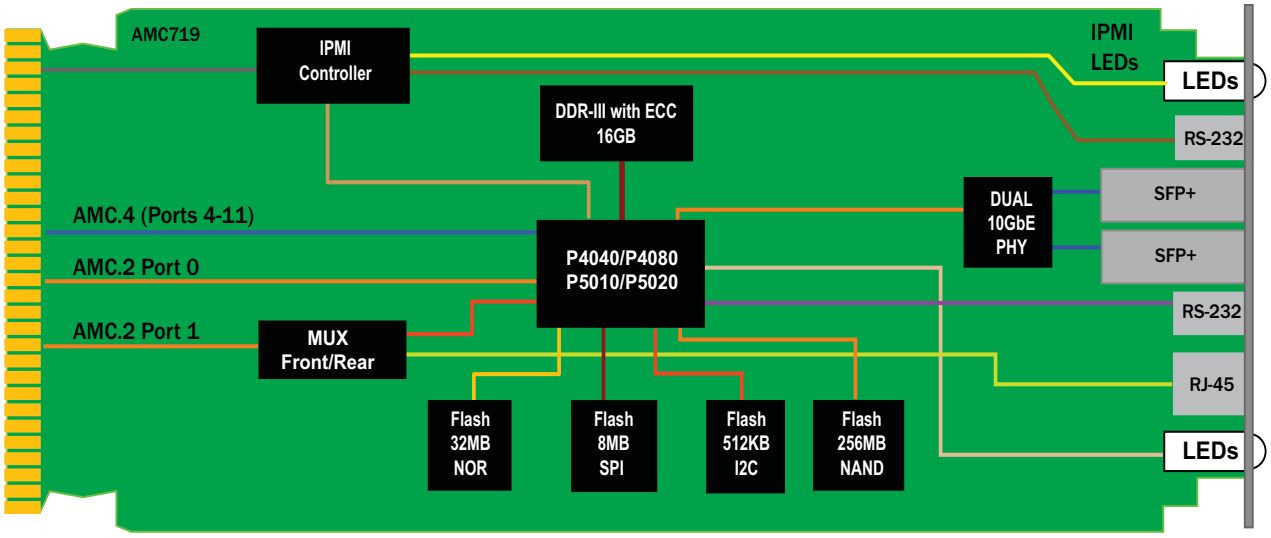
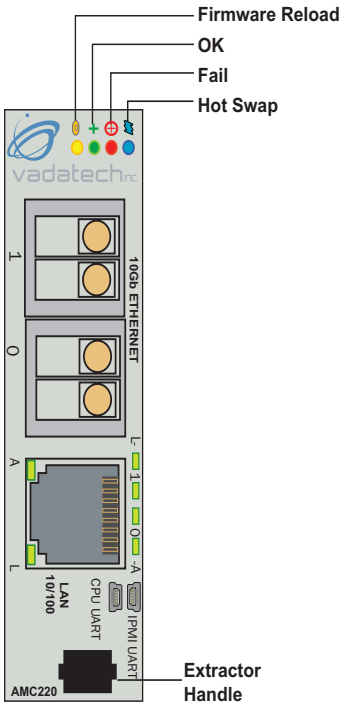



FIGURE 1. AMC719 Functional Block Diagram

FIGURE 2. AMC719 Front Panel



## ORDERING OPTIONS

AMC719 - ABC - 0EF - 0HJ

**A = CPU Speed**

1 = P4040 @ 1.2GHz
2 = P4040 @ 1.5GHz
3 = P4080 @ 1.2GHz
4 = P4080 @ 1.5GHz

**B = DDR-III ECC memory**

0 = 4 GByte
1 = 8 GByte
2 = 16 GByte

**C = Front Panel**

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

**E = SFP+ Transceivers Port 0**

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

**F = SFP+ Transceivers Port 1**

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

**H = Operating Temp**

0 = Commercial
1 = Industrial

**J = Conformal Coating**

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

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