

KEY FEATURES

- Single-width, mid-height (option for full-height) per AMC.0
- Processor AMC with Freescale™ QorIQ P5010 and P5020
- PCIe Gen2 on ports 4-11
- Configurable as Host (Root Complex) or Agent
- Single 10GbE with SFP+ interface
- Up to 16GBytes of DDR-III memory with ECC
- Dual GbE per AMC.2 specification on ports 0 and 1
- Dual SATA per AMC.3 specification on ports 2 and 3
- 32Mbytes of NOR Flash
- 8Mbytes of SPI Flash and 512KB of I2C Flash
- 256 Mbytes of NAND Flash
- Up to 32GB of SSD
- IPMI 2.0 compliant
- RoHS compliant
- OS support for Linux and VxWorks

The AMC713 is a Processor AMC (PrAMC) in a single-width, mid-height AdvancedMC™ (AMC) form factor based on the Freescale P5010 and P5020. The module follows the AMC.1 and AMC.2 specifications. The PCIe interface is configurable as Host or Agent mode and it interfaces as x8 or dual x4. The module has option for up to 16GBytes of DDR-III memory with ECC.

The AMC713 provides single 10GbE via SFP+.

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

The AMC713 also routes dual SATA to ports 2 and 3 per AMC.3 specification. On board SSD (Solid State Disk) option.

The AMC713 has Serial Over LAN (SOL) with a true hardware Random Number Generator.

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

AdvancedMC™

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 P5010 and P5020 @ 2GHz | |
| Standards | | | |
| AMC | Type | AMC.1 and AMC.2 | |
| Module Management | IPMI | IPMI Version 2.0 | |
| PCIe | Lanes | PCIe x8 or dual PCIe x4 | |
| Configuration | | | |
| Power | AMC713 | 26W with P5020 @ 2GHz | |
| 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/s ² (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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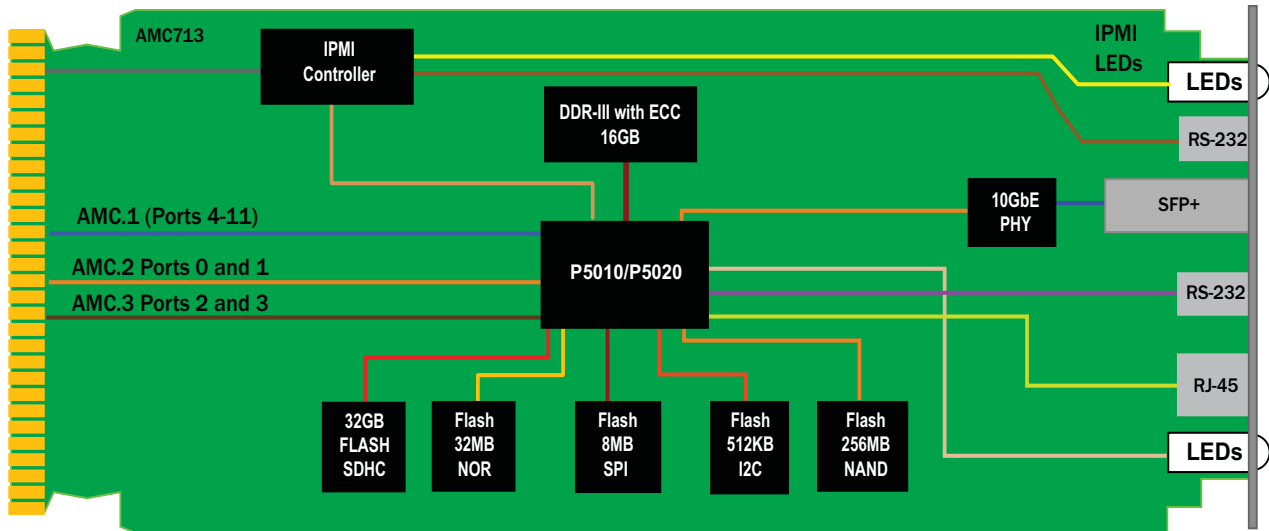
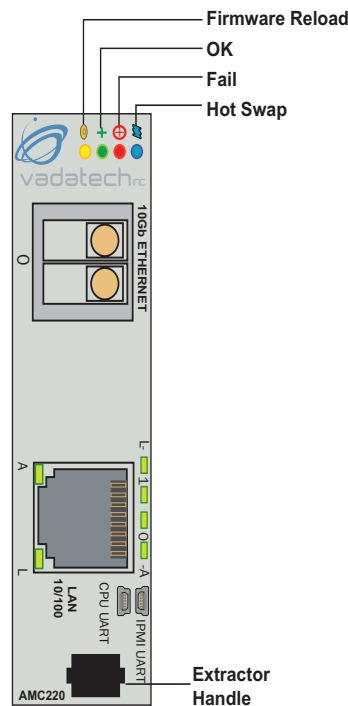


FIGURE 1. AMC713 Functional Block Diagram

FIGURE 2. AMC713 Front Panel



ORDERING OPTIONS

AMC713 - ABC - DEO - OHJ

A = CPU Speed

- 1 = P5010 @ 2GHz
- 2 = P5020 @ 2GHz
- 3 = P5010 @ 1.5GHz
- 4 = P5020 @ 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

D = SSD

- 0 = None
- 1 = 16 GB
- 2 = 32 GB

E = SFP+ Transceivers

- 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

