

## PrAMC with 2.5" SATA Drive – AMC715

PrAMC, 2.5" SATA



### KEY FEATURES

- Single-module, mid-size per AMC.0
- Processor AMC with PPC8315 @ 400Mhz
- PCIe x1 lane on port 4 and port 8, AMC.1
- PCIe is configurable as Host (Root Complex) or Agent
- 512MBytes of DDR2 memory
- Dual GbE front access or rear per AMC.2 specification
- SATA routed to the rear per AMC.3 specification
- 2.5" SATA drive on board
- IPMI v2.0 compliant
- RoHS compliant

**AdvancedMC™**

### Benefits of Choosing VadaTech

- Processor with on-board storage, ideal for network attached storage (NAS)
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC715 is a Processor AMC (PrAMC) with an on board 2.5" SATA hard disk drive in a single-module, mid-size AdvancedMC™ (AMC) form factor based on the AMC.1, AMC.2 and the AMC.3 specifications. The module is ideal to be used for data flow management within a chassis. The AMC715 provides a low cost solution with an integrated high capacity disk. With a storage capacity of over 320 GB and data transfer rates of 150 Mbyte/s the AMC715 is the ideal AdvancedMC™ smart storage. The PCIe interface is configurable as Host or Agent mode. The module has 512 MB of DDR2 memory on board.

The module provides Dual GbE to the front or the rear per AMC.2 specification. Further the module routes a SATA port to port 2 of the AMC for additional storage per the AMC.3 specification.

Also available in Solid State Flash Disk configurations.

## SSD RAID

The Solid State Drives (SSD) with no moving parts allows for high speed data storage and retrieval. When the SSD are used in RAID configuration they provide greater reliability and power efficiency.

## 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.

## BLOCK DIAGRAM

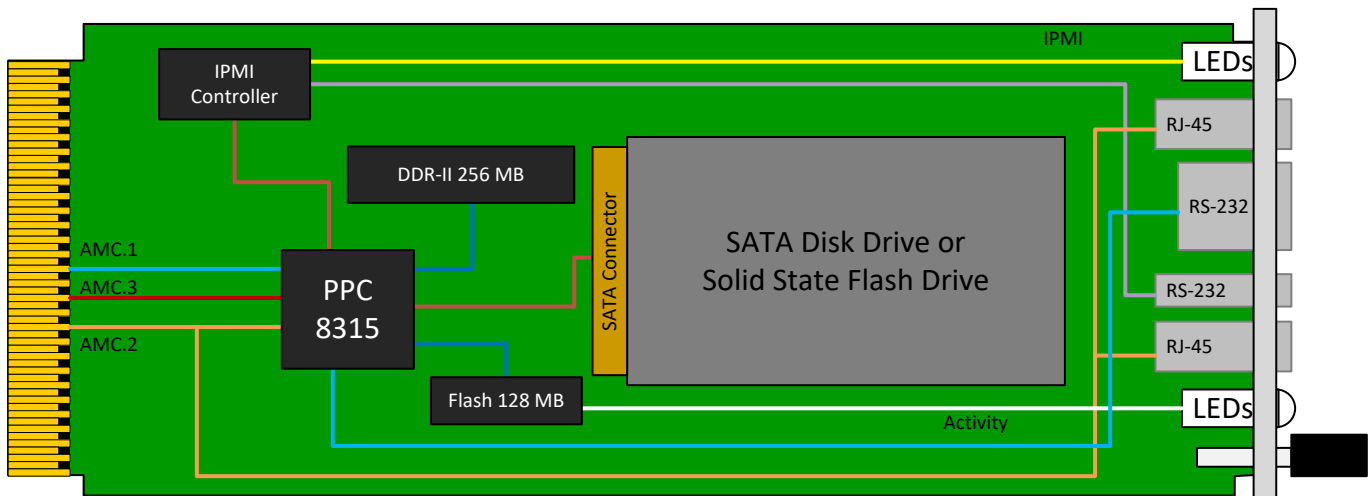


Figure 1: AMC715 Functional Block Diagram

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	AMC Processor	Single-module, mid-size (full-size options available)
		Optional Solid State Disk Drive (Contact Sales for capacity and availability)
		5400 RPM (with an option for 7200 RPM drive), <12ms average seek time
		Up to 320 Gbyte hard drive capacity, 16 Mbyte buffer
		150 Mbyte/s transfer rate
Standards		
AMC	Type	AMC.0, AMC.1, AMC.2 and AMC.3
Module Management	IPMI	IPMI version 2.0
PCIe	Lanes	x1 on port 4 and x1 on port 8
Configuration		
Power	AMC715	7W
Environmental	Temperature	Operating temperature: -5° to 55° C (air flow requirement of >200 LFM), 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	Dual GbE via RJ-45
		MGT RS-232
		IPMI RS-232 via micro USB
	LEDs	IPMI management control Activity / Link user LEDs
	Mechanical	Hot swap ejector handle
Software Support	Operating System	Linux
Other		
MTFB	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	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

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## ORDERING OPTIONS

### AMC715 – ABC – D00 – 00J

#### A = SATA Drive Capacity

- 0 = None
- 1 = Reserved
- 2 = Reserved
- 3 = Reserved
- 4 = 200 GB
- 5 = 320 GB
- 6 = 500 GB
- 7 = 1 TB
- 8 = Reserved

#### B = Solid State Disk

- 0 = None
- 1 = 32 GB
- 2 = 80 GB
- 3 = 120 GB
- 4 = 240GB
- 5 = 480GB
- 6 = Reserved

#### C = Front Panel Size

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

#### D = Temperature Range

- 1 = Extended (-20 to +85° C)\*
- 2 = Standard (-5 to +55° C)\*

#### J = Conformal Coating

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

\* Available for the SSD option only

## RELATED PRODUCTS



UTC002 MCH



VT841 1U  
Chassis Platform



AMC517 Kintex-7  
FPGA

## CONTACT US

#### VadaTech Corporate Office

198 N. Gibson Rd.  
Henderson, NV 89014  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +1 702 896-3337  
Fax: +1 702 896-0332

#### Asia Pacific Sales Office

7 Floor, No. 2, Wenhua Street, Neihu District,  
Taipei 114, Taiwan  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +886-2-2627-7655  
Fax: +886-2-2627-7792

#### VadaTech European Sales Office

Ocean Village Innovation Centre, Ocean Way,  
Ocean Village, Southampton, SO14 3JZ  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +44 2380 381982  
Fax: +44 2380 381983