PrAMC based on CN66XX Packet Processor

AMC732





KEY FEATURES

- AMC.1, AMC.2 and AMC.4
- Single-width, mid-height (full-height option available)
- Cavium OCTEON CN66xx Multi-Core MIPS64
 Processor
- Options for 6 to 10 processor cores
- Options for 800Mhz to 1.5Ghz speed grade
- DDR3 with ECC memory
- 2GB of DDR-III for HFA (Hyper Finite Automata)
- Single SFP+ socket supporting 10GbE
- PCIe/SRIO x4 to ports 4-7 and XAUI to ports 8-11
- RTC
- 8MB NOR and 32GB of NAND Flash
- Serial Over LAN (SOL) capabilities
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
 - Linux
 - VxWork

The AMC732 is a 10-Gigabit Ethernet (10GbE) AdvancedMCTM (AMC) module which includes an on-board line rate multi-core packet processor based on Cavium CN66XX CPU. VadaTech offers this product in a mid-height form factor with the AMC.1, AMC.2 and AMC.4 specification (option full-height design, see ordering options).

The AMC732 is based around the Cavium OCTEON CN66xx processor which has been specifically designed to intelligently process Ethernet packets at line rate. The processor can be loaded via the PCle/SRIO interface or via an optional flash memory. The number of processor cores, speed grade, and amount of DDR3 memory is customizable based on customer needs.The module has an RTC on board.

The module has 2GB of HFA for pattern matching for deep packet inspection, etc. The SDK for the processor as well as additional software stacks are available from Cavium or third party. The AMC732 has Serial Over LAN (SOL) with a true hardware Random Number Generator.



SPECIFICATIONS

Architecture			
Physical	Dimensions	Mid-Height (Full-Height option)	
		Width: 2.89 in. (73.5 mm)	
		Depth: 7.11 in. (180.6 mm)	
Туре	AMC 10 GbE	PrAMC based on CN66XX	
Standards			
AMC	Туре	AMC.1, AMC.2 and AMC.4	
Module Management	IPMI	IPMI Version 2.0	
PCIe/SRI0	Lanes	x4 on ports 4-7	
Configuration			
Power	AMC732	~20W (CPU Dependent)	
Environmental	Temperature	Operating Temperature: 0° to 60° C	
		Storage Temperature: -40° to +90° C	
	Vibration	1G, 5-500Hz each axis	
	Shock	30Gs each axis	
	Relative Humidity	5 to 95 percent, non-condensing	
Front Panel	Interface Connectors	Single SFP+, RJ-45. dual micro USB connectors for USB and RS-232, IPMI RS-232	
	LEDs	IPMI Management Control	
		Activity/Link and two user defined	
	Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Linux and VxWorks	
Other			
MTBF	MIL Handbook 217-F >TBD		
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 TM and the AdvancedTCA TM logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.		

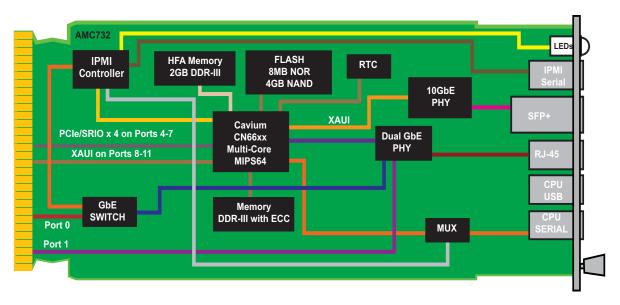


FIGURE 1. AMC732 Functional Block Diagram

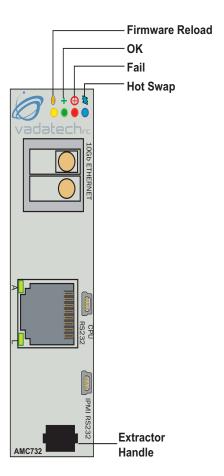


FIGURE 2. AMC732 Front Panel

ORDERING OPTIONS

AMC732 - ABC - DEO - GHJ

A = CPU Cores [*]	D = DDR-III Memory W/ECC	G = SFP+ Transceivers
1 = CN6635AAP (6 Core)	0 = 4GB	0 = None
2 = CN6635CP (6 Core)	1 = 8GB	1= 10GBASE-SR
3 = CN6645AAP (10 Core)	2 = 16GB	2 = Reserved
4 = CN6645CP (10 Core)		3 = 10GBASE-LRM
		4 = 10GBASE-LR
B = CPU Speed	E = NAND Flash	H = PCIe/SRIO port configuration
0 = 800MHz	0 = None	0 = PCIe on ports 4-7
1 = 1GHz	1 = Reserved	1 = SRIO on ports 4-7
2 = 1.1GHz	2 = Reserved	
3 = 1.3GHz	3 = 16GB	
	4 = 32GB	
C = Front Panel Height	J = Conformal Coating	
1 = Reserved	0 = None	
2 = Mid-Height	1 = Humiseal 1A33 Polyurethane	
3 = Full-Height		2 = Humiseal 1B31 Acrylic

*AAP = Application Acceleration Processor: Includes RAID, encryption, RegEx acceleration, compression/decompression, networking, TCP acceleration, and QoS CP = Communication Processor: Includes networking, TCP acceleration, and QoS



