µTCA.4 Intel® Processor AMC

AMC725

KEY FEATURES

- Double-width, mid-height per AMC.0 and MTCA.4
- Intel® Xeon E3 4C, 2GHz, 8MB LLC processor
- DVI graphics (SM750 w/ 16MB DDR), up to 1920x1440 resolution
- Optional up to 256GB SSD w/ RAID option
- PCIe Gen3 on ports 4-7 and 8-11 or single PCIe x8 on ports 4-11 (AMC.1)
- GbE on ports 0 and 1 (AMC.2)
- SATA on ports 2 and 3 (AMC.3)
- PCIe Gen3 x8, dual SATA and quad USB to RTM
- Dual 10GbE to front panel (SFP+)
- Dual GbE to front panel (RJ-45)
- Up to 16GB DDR-III memory w/ ECC
- Up to 32GB FLASH memory
- Serial over LAN
- IPMI 2.0 compliant

The AMC725 is a Processor AMC (PrAMC) in a µTCA.4 double-width, mid-height AdvancedMC™ (AMC) form factor based on the Intel® Xeon E3 Processor. The module complies with the AMC.1, AMC.2 and the AMC.3 specifications.

The module provides PCIe Gen2 x4 or single x8 on ports 4-11 per AMC.1, dual GbE on ports 0 and 1 per AMC.2, and SATA on ports 2 and 3 per AMC.3. It also provides dual GbE and dual 10GbE to the front.

The AMC725 comes with 16 GB of DDR-III memory with ECC. Further, the AMC725 allows for up to 32 GB of Flash for the OS. It also has an optional on-board dual SSD RAID and routes PCIe, USB and SATA signals to the RTM connector for further expansion.

The AMC725 has serial over LAN with hardware Random Number Generator (RNG) as seed generator for authentication.

The BIOS allows booting from on board Flash, off board SATA, PXE boot as well as USB.

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SPECIFICATIONS

Architecture		
		Double-Width, Mid-Height
Physical	**Dimensions**	Width: 5.85" (148.5mm)
		Depth 7.11" (180.6mm)
Product Type	**AMC Processor**	Intel® Xeon E3 quad-core, 2GHz
Standards		
AMC	**Type**	AMC.0, AMC.1, AMC.2, AMC.3
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	Dual x4 or single x8 as PCIe
TBD		
Power	**AMC725**	TBD
Environmental	**Temperature**	Operating Temperature: 0° to 55° C (air flow >400LFM)
		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 per cent, non-condensing
Front Panel	**LEDs**	Humiseal 1A33 Polyurethane
	I/O	Dual GbE via RJ-45
		Dual USB via micro USB
		Single DVI
		Dual 10GbE via SFP+
		Dual RS-232 via micro USB
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux, VxWorks and Windows
Other		
MTBF	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 Logos	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.	

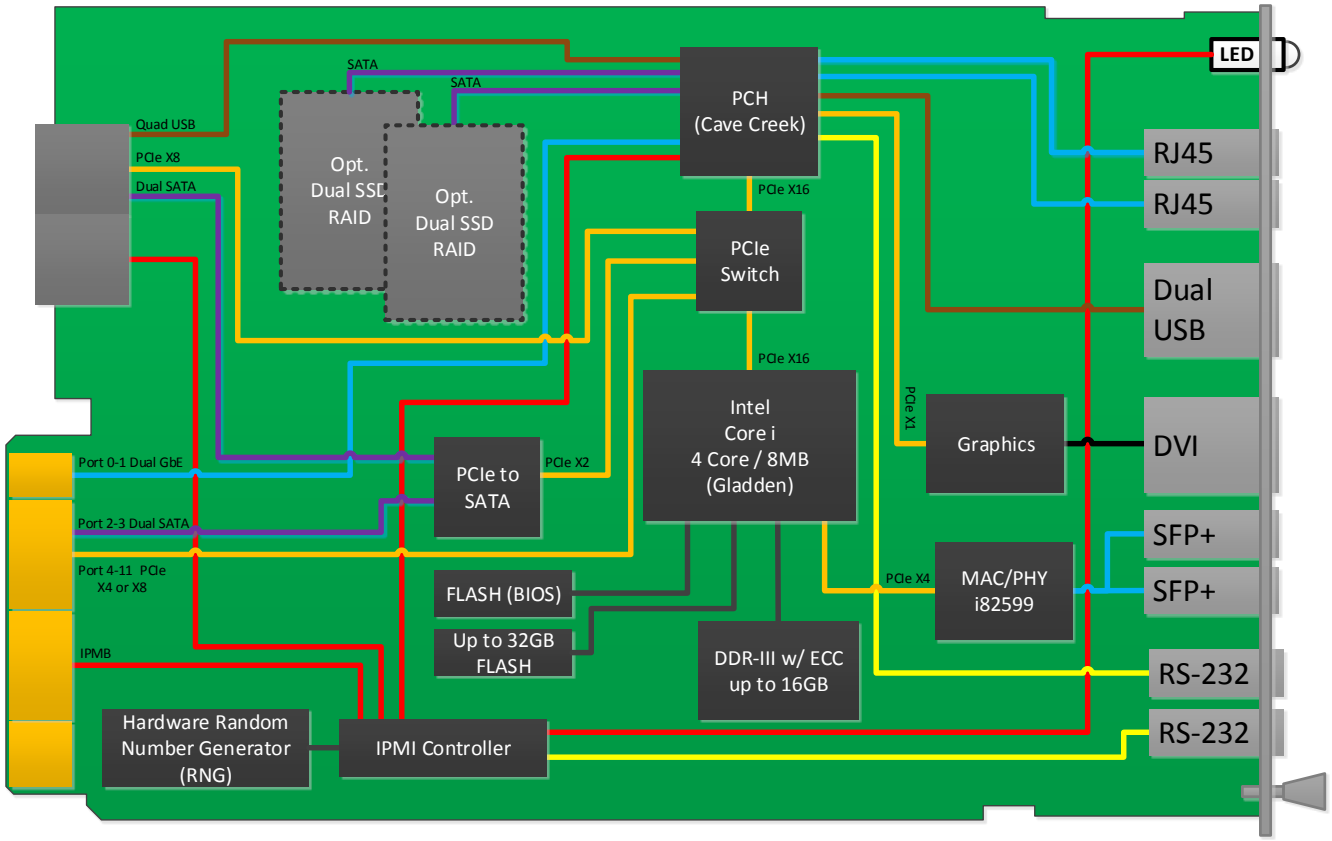

FIGURE 1. AMC725 Functional Block Diagram

ORDERING OPTIONS

AMC725-ABC-DEF-0HJ

A = SFP+ Transceivers

0 = None
1 = 10GBASE-SR
2 = 10GBASE-LR

B = DDR-III ECC memory

0 = Reserved
1 = Reserved
2 = 16GByte

C = Front Panel Height

0 = N/A
1 = Reserved
2 = Mid-Height
3 = Full-Height

D = Flash

0 = None
1 = Reserved
2 = Reserved
3 = 32GB

E = Number of SSD

0 = None
1 = 1
2 = 2

F = SSD size (both same if dual SSD)

0 = None
1 = 120GB
2 = 240GB
3 = 360GB
4 = 480GB
5 = Reserved
6 = Reserved

H = Temp range

0 = Commercial
1 = Industrial

J = Conformal Coating

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

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