AMC753

Processor AMC, Intel Xeon D-1567, SRIO/PCIe

AMC753

Key Features

- Processor AMC with Xeon-D 1567
- Two banks of 64-bit DDR4 memory (up to 16 GB total)
- Ports 4-7 selectable between SRIO and PCIe
- Front panel has 10GbE via SFP+ and GbE via RJ-45
- 128 MB NOR Flash and 512 MB NAND Flash
- Single-module, full-size per AMC.0
- RoHS Compliant

Benefits

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

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AMC753

The AMC753 is a Processor AMC (PrAMC) based on the Intel Xeon D-1567 processor in a single-module, full-size AMC form factor based on the AMC.2 and the AMC.4 specifications.

The front panel provides GbE via a single RJ-45 connector, 10GbE via SFP+ connector, and USB 3.0 via Type C connector.
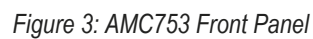
The AMC753 provides dual GbE to the rear per AMC.2 specification on Ports 0 and 1. (**Ports 0 and 1 will support 10G operation** but this is outside the AMC standard so requires non-standard MCH.) Ports 4-7 can be SRIO or PCIe as selected by the user.

Two 64-bit wide memory banks provide up to 16 GB of DDR4 with ECC.

Figure 1: AMC753

Block Diagram

Figure 2: AMC753 Functional Block Diagram

Front Panel

Figure 3: AMC753 Front Panel

AMC753 – Processor AMC, Intel Xeon D-15xx, SRIO/PCIe   info@vadatech.com | www.vadatech.com

Specifications

Architecture		
Physical	**Dimensions**	Single module, full-size
		Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
Type	**PrAMC**	Intel Xeon D-1567
Standards		
AMC	**Type**	AMC.0, AMC.1, AMC.2 and AMC.4
Module Management	**IPMI**	IPMI v2.0
SRIO 2.0 / PCIe	**Lanes**	x4
10GbE	**Lanes**	10GbE via front panel
Ethernet	**GbE**	GbE/10GbE on Ports 0-1, single GbE via front panel
Configuration		
Power	**AMC753**	85 W
Environmental	**Temperature**	See Ordering Options and Environmental Spec Sheet
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500 Hz on each axis
	Shock	Operating 325 G/2 ms, 160G/1 ms
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	GbE via RJ-45, 10GbE via SFP+
		USB 3.0 via Type C
		Dual RS-232 management ports via micro USB
	LEDs	IPMI Management Control
		Link/Activity
	Mechanical	Hot-swap ejector handle
Software Support	**Operating System**	Linux (consult Sales for other OS options)
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 ISO9001:2015 and AS9100D standards
Warranty		Two (2) years, see VadaTech Terms and Conditions

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

AMC753 – ABC-DE0-00J

A = Processor Option	D = Ports 8-11	
0 = Xeon D-1567 1 = Reserved	0 = No connect 1 = PCIe	

B = DDR3 Memory	E = SFP+ TXCVR	
0 = Reserved 1 = 8 GB 2 = 16 GB	0 = No TXCVR 1 = SR TXCVR 2 = LR TXCVR	

C = Front Panel		J = Temperature Range and Coating
1 = Reserved 2 = Reserved 3 = Full-size 4 = Reserved 5 = Reserved 6 = Full-size, MTCA.1 (captive screws)		0 = Commercial (–5° to +55°C), No coating 1 = Commercial (–5° to +55°C), Humiseal 1A33 Polyurethane 2 = Commercial (–5° to +55°C), Humiseal 1B31 Acrylic 3 = Industrial (–20° to +70°C), No coating 4 = Industrial (–20° to +70°C), Humiseal 1A33 Polyurethane 5 = Industrial (–20° to +70°C), Humiseal 1B31 Acrylic 6 = Extended (–40° to +85°C), Humiseal 1A33 Polyurethane* 7 = Extended (–40° to +85°C), Humiseal 1B31 Acrylic*

Notes: *Conduction cooled; temperature is at edge of module. Consult factory for availability.

Related Products

AMC725

- Intel® Xeon E3 processor options with PCH
- DVI graphics (SM750 w/16 MB DDR), up to 1920x1440 resolution
- Optional up to 256 GB SSD with RAID option

VT811

- MTCA System Platform 19" x 8U x 14.9" deep (with handles 16.23" deep)
- Full redundancy with dual MicroTCA Carrier Hub (MCH), dual Cooling Units and quad Power Modules
- Up to twelve AMCs: 12 front mid-size double module slots and RTM slots

VT814

- MicroTCA rack mount or desktop chassis platform, 19" x 2U x 14.2" deep
- Compliant to MTCA.4 specifications with rear IO for High-Energy Physics and other applications
- Supports up to six MTCA.4 mid-size, double module AMCs and RTMs

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