

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

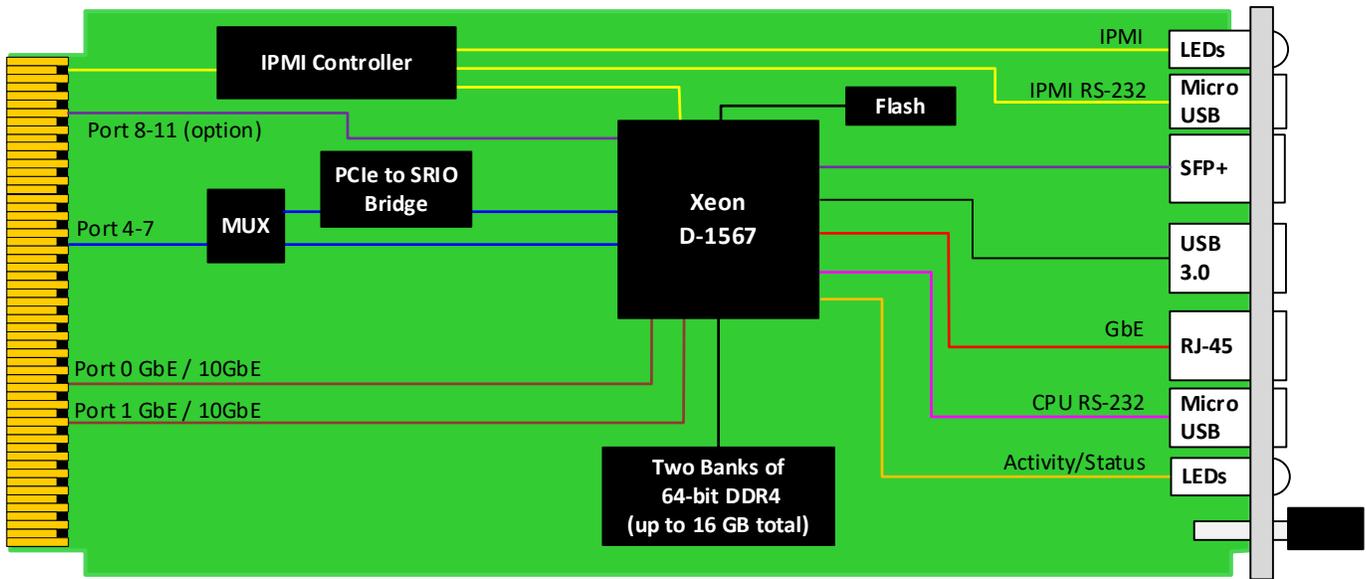


Figure 2: AMC753 Functional Block Diagram

Front Panel



Figure 3: AMC753 Front Panel

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 0 = Xeon D-1567 1 = Reserved	D = Ports 8-11 0 = No connect 1 = PCIe	
B = DDR3 Memory 0 = Reserved 1 = 8 GB 2 = 16 GB	E = SFP+ TXCVR 0 = No TXCVR 1 = SR TXCVR 2 = LR TXCVR	
C = Front Panel 1 = Reserved 2 = Reserved 3 = Full-size 4 = Reserved 5 = Reserved 6 = Full-size, MTCA.1 (captive screws)		J = Temperature Range and Coating 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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