

AMC752

Intel® 5th Generation Xeon Processor, AMC



AMC752

Key Features

- Processor AMC Intel® 5th Generation Xeon (Broadwell) SoC
- Dual PCIe Gen3 x4 or single PCIe x8 on Ports 4-11 (AMC.1)
- GbE to Port 0 and 1 (AMC.2) and SATA to Ports 2 and 3 (AMC.3)
- 10GBASE-T to the front panel
- Video output via micro HDMI connector
- Single module, mid-size (option for full-size) per AMC.0
- 16 GB of DDR4 memory with ECC
- 64 GB of Flash memory

Benefits

- Efficient SoC design with integrated PCH technology
- Lower power consumption and cost-effective for high performance
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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AMC752

The AMC752 is a Processor AMC in a single module, mid-size based on the Intel® 5th generation Xeon (Broadwell). The efficient SoC design has low power consumption and integrated PCH technology. The module follows the AMC.1, AMC.2 and the AMC.3 specifications.

The module provides dual PCIe Gen3 x4 or single x8 on Ports 4-11 per AMC.1, GbE on Ports 0 and 1 per AMC.2, and SATA on Ports 2 and 3 per AMC.3. It also provides 100 Mbit/1GbE/10GbE to the front panel (the module can auto-negotiate down to 100 Mbit Ethernet but not 10 Mbit).

The AMC752 provides 16 GB of DDR4 memory with ECC and 64 GB of Flash for the OS. The BIOS allows booting from onboard Flash, offboard SATA, PXE boot and USB. There are dual USB for extended storage or peripherals.

Linux OS is standard on the AMC752, consult VadaTech for other options.



Figure 1: AMC752

Block Diagram

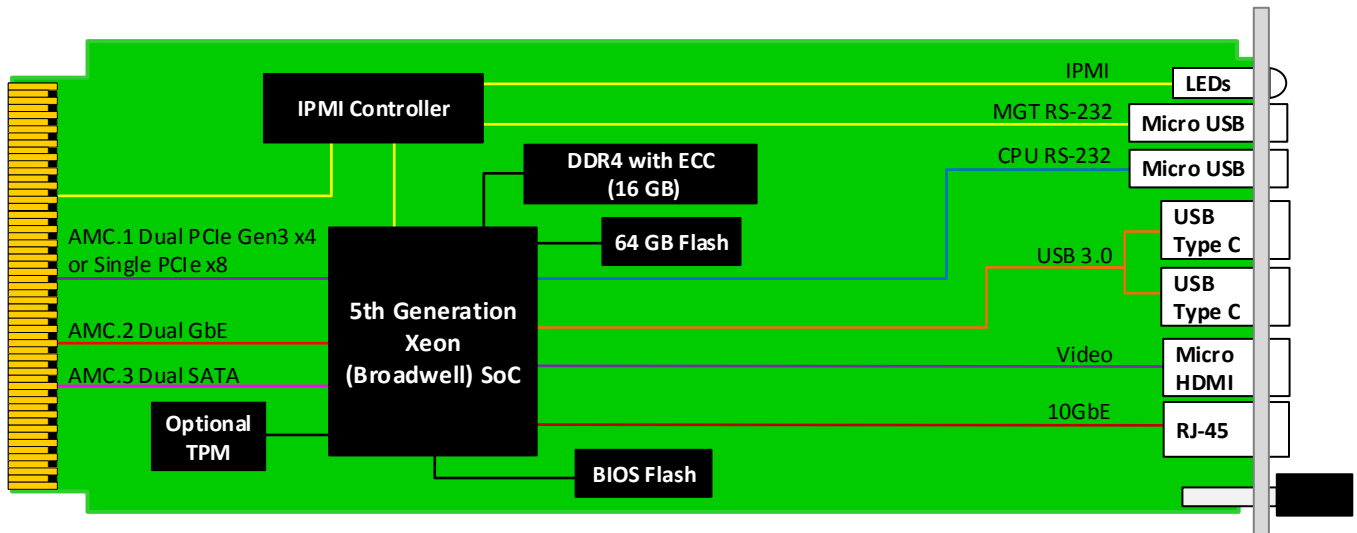


Figure 2: AMC752 Functional Block Diagram

Front Panel

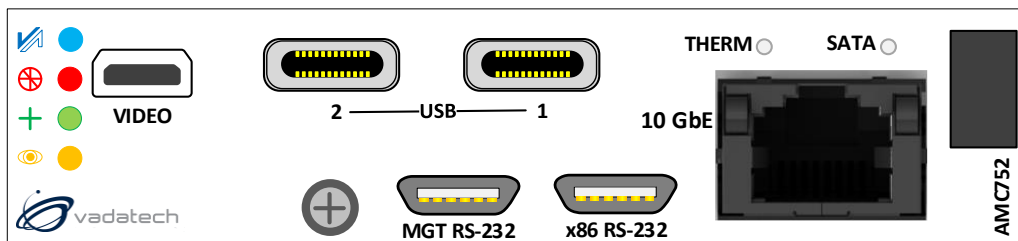


Figure 3: AMC752 Front Panel

Specifications

Architecture	
Physical	Dimensions Width: 2.89" (73.5 mm) Depth: 7.11" (180.6 mm)
Type	AMC Processor Intel® 5th Generation Xeon D-1537 or D-1548
Standards	
AMC	Type AMC.0, AMC.1, AMC.2 and/or AMC.3
Module Management	IPMI IPMI v2.0
PCIe	Lanes Single x8 or dual x4 as PCIe Gen3
Configuration	
Power	AMC752 TBD
Environmental	Temperature See Ordering Options and Environmental Spec Sheet Storage Temperature: -40° to +85°C
	Vibration Operating 9.8 m/s ² (1G), 5-500 Hz
	Shock Operating 325G/2 ms, 160 G/1 ms
	Relative Humidity 5 to 95% non-condensing
Front Panel	Interface Connectors 1x RJ-45 for 10GbE 2x USB for USB 3.0 2x Micro USB for MGT RS-232 and CPU RS-232 1x Micro HDMI for graphics
	LEDs IPMI, activity and user defined
	Mechanical Hot-swap ejector handle
Software Support	Operating System Linux (consult VadaTech for other 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

AMC752 – A0C-DE0-00J

A = SATA 0 = 32 GB 1 = 64 GB	D = Processor Type 0 = Reserved 1 = 8C, 2.0 GHz, 12 MB LLC, Xeon D-1548 2 = 8C, 2.3 GHz, 12 MB LLC, Xeon D-1537 3 = 4C, 1.6 GHz, 6 MB LLC, Xeon D-1513N 4 = Reserved 5 = 16C, 1.3 GHz, 24 MB LLC, Xeon D-1577 6 = 8C, 1.6 GHz, 12 MB LLC, Xeon D-1539	
	E = TPM 0 = No TPM 1 = TPM Installed	
C = Front Panel Size 1 = Reserved 2 = Mid-size 3 = Full-size 4 = Reserved 5 = Mid-size, MTCA.1 (captive screws) 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

UTC004



- Unified 1 GHz quad-core CPU for MCMC, Shelf Manager, Clocking, and Fabric management
- Automatic fail-over with redundant UTC004s
- Full Layer 2 or 3 managed Ethernet switches

UTC020



- Single module, full-size per AMC.0
- Dual -36V DC to -75V DC input, 936W (available in 468W)
- Hot swappable with support for power module redundancy

VT853



- MicroTCA 1U 19" rack mount chassis platform
- Six mid-size AMC slots per 1U Carrier or two double module mid-size with two mid-size AMC slots
- Front to back cooling

Contact

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DOC NO. 4FM737-12 REV 01 | VERSION 1.5 – JAN/20