AMC760

Intel® Xeon® Processor E-2176M or E-2276ME AMC, PCIe Gen3

AMC760

Key Features

- Processor AMC Intel® Xeon® Processor E-2176M or E2276ME (Coffee Lake)
- PCIe Gen3 x4 on Ports 4-7 and 8-11 or single PCIe x8 on Ports 4-11 (AMC.1)
- Serial Over LAN (SOL)
- 16 GB of DDR4 memory with ECC
- 64 GB of Flash memory
- Single module, mid-size (option for full-size) per AMC.0
- Trusted Platform Management (TPM)

Benefits

- High performance Xeon® Processor E-2176M or E-2276ME with CM246 PCH
- Graphics output via Mini Display Port
- 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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AMC760

The AMC760 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® Xeon® Processor E-2176M or E-2276ME (Coffee Lake) with CM246 PCH. The processor base frequency is 2.7 GHz with max turbo frequency of 4.4 GHz. The module follows AMC.1, AMC.2 and 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 GbE to the front panel.

The AMC760 has up to 16 GB of DDR4 memory with ECC and 64 GB of Flash for OS. The BIOS allows booting from on board Flash, off board SATA, PXE boot as well as USB. There are dual USB 3.0 type C connectors for extended storage or peripherals. The module comes with Trusted Platform Management (TPM).

Linux OS is standard on the AMC760, consult VadaTech for other options.

Figure 1: AMC760

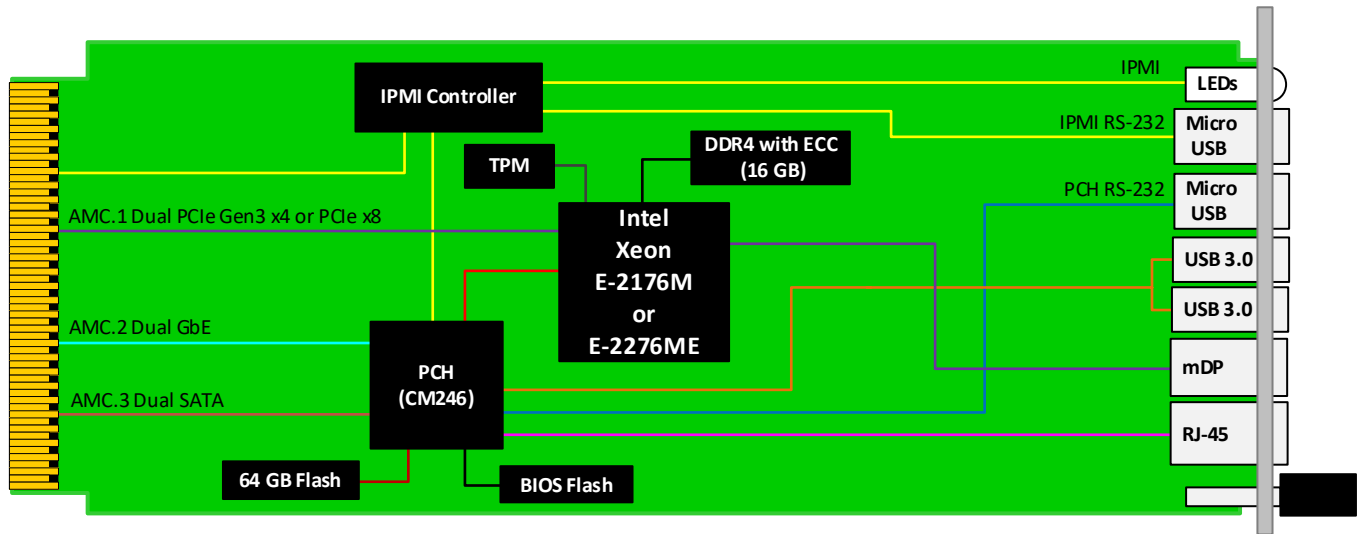AMC760 – Intel® Xeon® Processor E-2176M or E-2276ME AMC, PCIe Gen3

Block Diagram

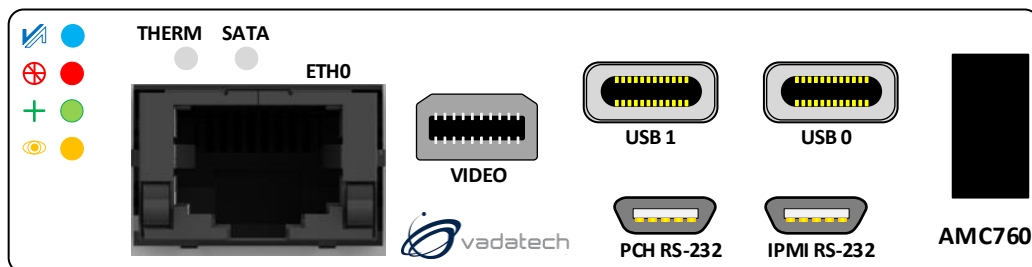*Figure 2: AMC760 Functional Block Diagram*

Front Panel

Figure 3: AMC760 Front Panel

Specifications

Architecture		
Physical	**Dimensions**	Width: 2.89" (73.5 mm)
		Depth: 7.11" (180.6 mm)
Type	**AMC Processor**	Intel® Xeon® Processor E-2176M or E-2276ME AMC
Standards		
AMC	**Type**	AMC.0, AMC.1, AMC.2 and/or AMC.3
Module Management	**IPMI**	IPMI v2.0
10/40 GbE	**Lanes**	Single x8 or dual x4 as PCIe Gen3
Configuration		
Power	**AMC760**	~53W
Environmental	**Temperature**	See Ordering Options and Environmental Spec Sheet
		Storage Temperature: –40° to +90°C
	Altitude	Chassis dependent
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	1x RJ-45 for GbE
		2x USB type C connectors for USB 3.0
		2x Micro USB for IPMI RS-232 and PCH RS-232
		1x Mini DisplayPort 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

AMC760 – ABC-D00-00J

A = DDR4 Memory	D = CPU	
0 = Reserved 1 = 16 GB	0 = E-2176M 1 = E-2276ME 2 = Reserved	
B = Flash Storage		
0 = Reserved 1 = 64 GB		
C = Front Panel Size		**J = Temperature Range and Coating***
1 = Reserved 2 = Mid-size 3 = Full-size 4 = Reserved 5 = Reserved 6 = Mid-size, MTCA.1/.4 7 = Full-size, MTCA.1/.4 8 = Reserved		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:

*Edge of module for conduction cooled boards, 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
- Cascade any number of 1U Carriers for Fabric expansion and management

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