AMC761

Intel® Xeon® Processor E-2176M AMC, 10/40 GbE

Key Features

- Processor AMC Intel® Xeon® Processor E-2176M (Coffee Lake)
- 40GbE (or 10GbE) on ports 4-7 and 8-11 (AMC.2)
- 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

Benefits

- High performance Xeon® Processor E-2176M with CM246 PCH
- Availability of chassis supporting 40G-capable backplanes
- 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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AMC761

The AMC761 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® Xeon® Processor E-2176M (Coffee Lake) with CM246 PCH. The processor base frequency is 2.7 GHz with max turbo frequency of 4.4 GHz. The module follows the AMC.2 and the AMC.3 specifications.

The module provides dual 40 GbE or dual XAUI on ports 4-11 per AMC.2, dual 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 AMC761 has up to 16 GB of DDR4 memory with ECC and 64 GB of Flash for OS. The BIOS allows booting from on board NAND, off board SATA, PXE boot as well as USB. There are dual USB 3.0 type C connectors for extended storage or peripherals.

Linux OS is standard on the AMC761, consult VadaTech for other options.

Block Diagram

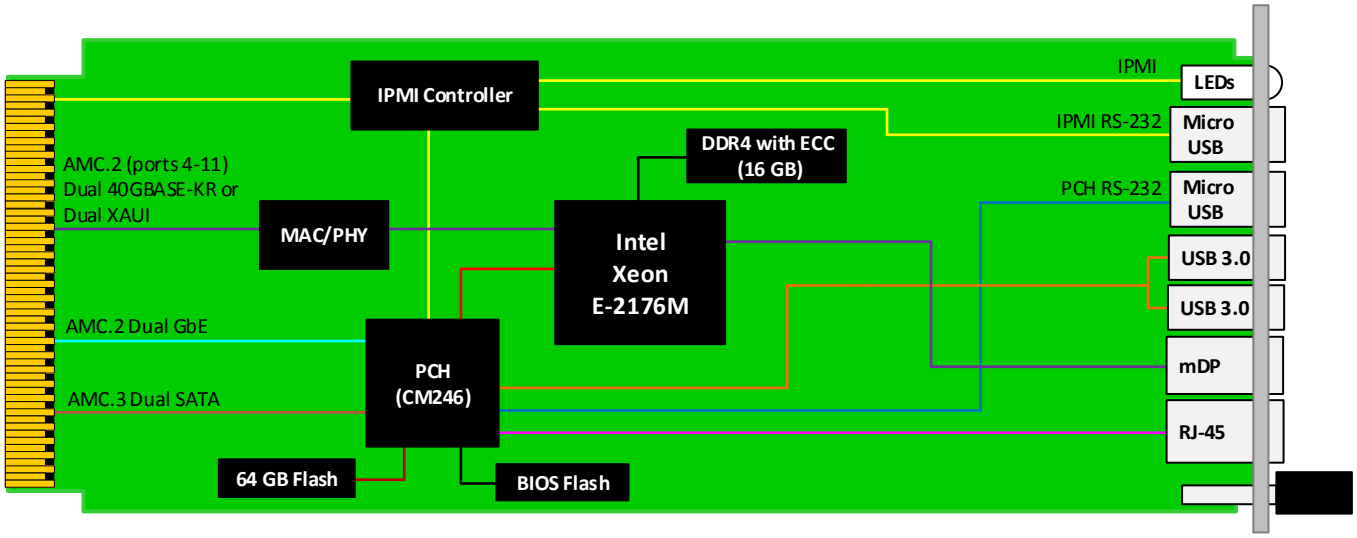

Figure 1: AMC761 Functional Block Diagram

Front Panel

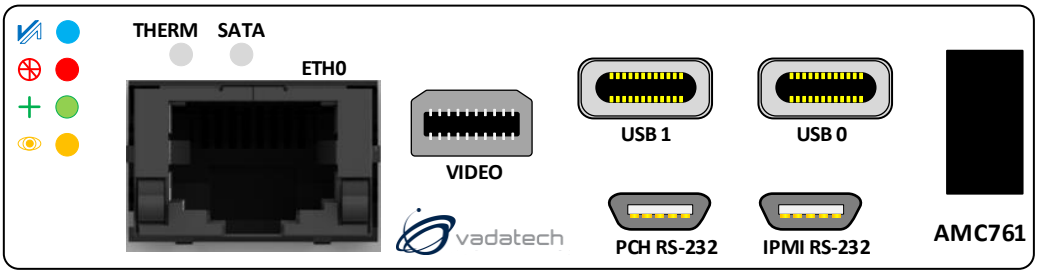

Figure 2: AMC761 Front Panel

Specifications

Architecture		
Physical	**Dimensions**	Width: 2.89” (73.5 mm)
		Depth: 7.11” (180.6 mm)
Type	**AMC Processor**	Intel® Xeon® Processor E-2176M AMC
Standards		
AMC	**Type**	AMC.0, AMC.2 and/or AMC.3
Module Management	**IPMI**	IPMI v2.0
10/40 GbE	**Lanes**	Dual XAUI or dual 40GBase-KR4
Configuration		
Power	**AMC761**	~58 W
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 ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	

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

AMC761 – ABC-D00-00J

A = DDR4 Memory	D = CPU	
0 = Reserved 1 = 16 GB	0 = E-2176M 1 = Reserved 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 -36 V DC to -75 V DC input, 936 W (available in 468 W)
- Hot swappable with support for power module redundancy

VT866

- MTCA System Platform 19” x 5U x 10.5” deep (with handles 12” deep)
- Full redundancy with dual MicroTCA Carrier Hub (MCH), dual Cooling Units and dual Power Modules
- Up to 12 AMCs in single width/full-size

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