

# AMC761

Intel® Xeon® Processor E-2176M

AMC, 10/40GbE



AMC761

## 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)
- 32 GB of DDR4 memory with ECC
- 64 GB of Flash memory
- Trusted Platform Management (TPM)
- 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 Advanced Mezzanine Card (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 unit provides dual 40GbE 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 32 GB of DDR4 memory with ECC and 64 GB of Flash for OS. The BIOS allows booting from onboard NAND, offboard SATA, PXE boot as well as USB. There are dual USB 3.0 type C connectors for extended storage or peripherals. The module has Trusted Platform Management (TPM) capabilities.

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

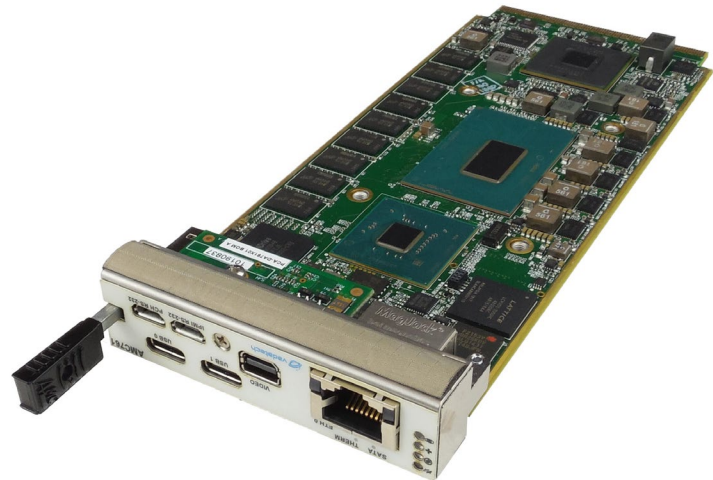


Figure 1: AMC761

# Block Diagram

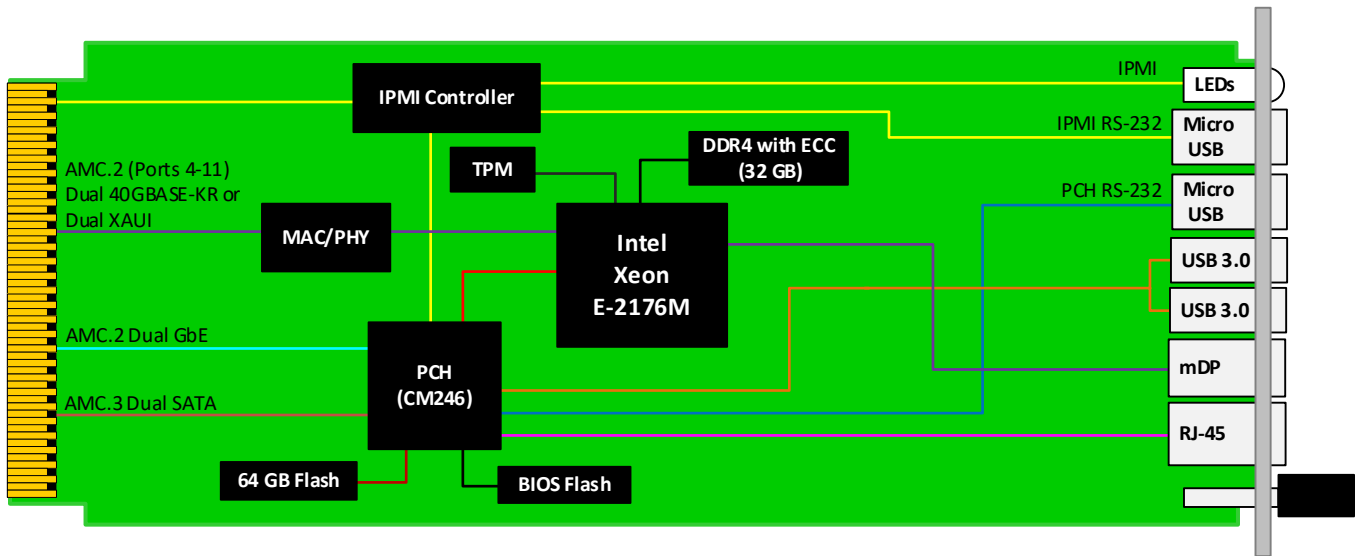


Figure 2: AMC761 Functional Block Diagram

# Front Panel

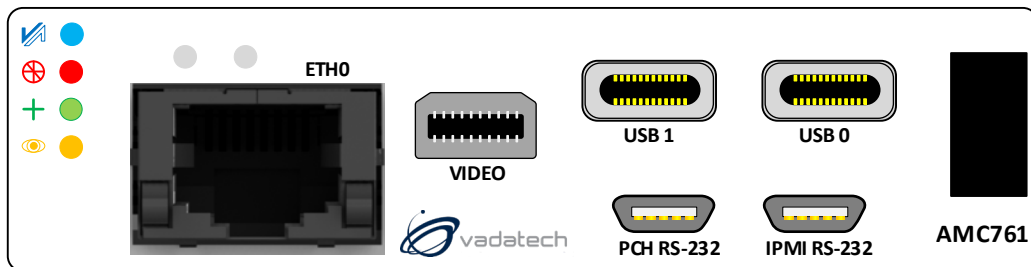


Figure 3: AMC761 Front Panel

# Specifications

Architecture	
<b>Physical</b>	<b>Dimensions</b> Width: 2.89" (73.5 mm) Depth: 7.11" (180.6 mm)
<b>Type</b>	<b>AMC Processor</b> Intel® Xeon® Processor E-2176M AMC
Standards	
<b>AMC</b>	<b>Type</b> AMC.0, AMC.2 and/or AMC.3
<b>Module Management</b>	<b>IPMI</b> IPMI v2.0
<b>10/40GbE</b>	<b>Lanes</b> Dual XAUI or dual 40GBase-KR4
Configuration	
<b>Power</b>	<b>AMC761</b> ~58W
<b>Environmental</b>	<b>Temperature</b> See <a href="#">Ordering Options</a> and <a href="#">Environmental Spec Sheet</a> Storage Temperature: -40° to +90°C <b>Altitude</b> Chassis dependent <b>Relative Humidity</b> 5 to 95% non-condensing
<b>Front Panel</b>	<b>Interface Connectors</b> 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 Display Port for graphics <b>LEDs</b> IPMI, activity and user defined <b>Mechanical</b> Hot-swap ejector handle
<b>Software Support</b>	<b>Operating System</b> Linux (consult VadaTech for other options)
Other	
<b>MTBF</b>	MIL Hand book 217-F@ TBD hrs
<b>Certifications</b>	Designed to meet FCC, CE and UL certifications, where applicable
<b>Standards</b>	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
<b>Warranty</b>	Two (2) years, see <a href="#">VadaTech Terms and Conditions</a>

## 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

<b>A = DDR4 Memory</b> 0 = Reserved 1 = 16 GB 2 = 32 GB	<b>D = CPU</b> 0 = E-2176M 1 = Reserved 2 = Reserved	
<b>B = Flash Storage</b> 0 = Reserved 1 = 64 GB		
<b>C = Front Panel Size</b> 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		<b>J = Temperature Range and Coating*</b> 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

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

# Contact

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