

AMC757

Intel Xeon E3 Processor AMC,
10/40 GbE

Key Features

- Processor AMC Intel® Xeon® Processor E3-1505M v6 (Kaby 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
- IPMI version 2.0
- Single module, mid-size (option for full-size) per AMC.0

Benefits

- High performance Xeon E3-1505M processor with CM238 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

AdvancedMC™



vadatech
THE POWER OF VISION



AMC757

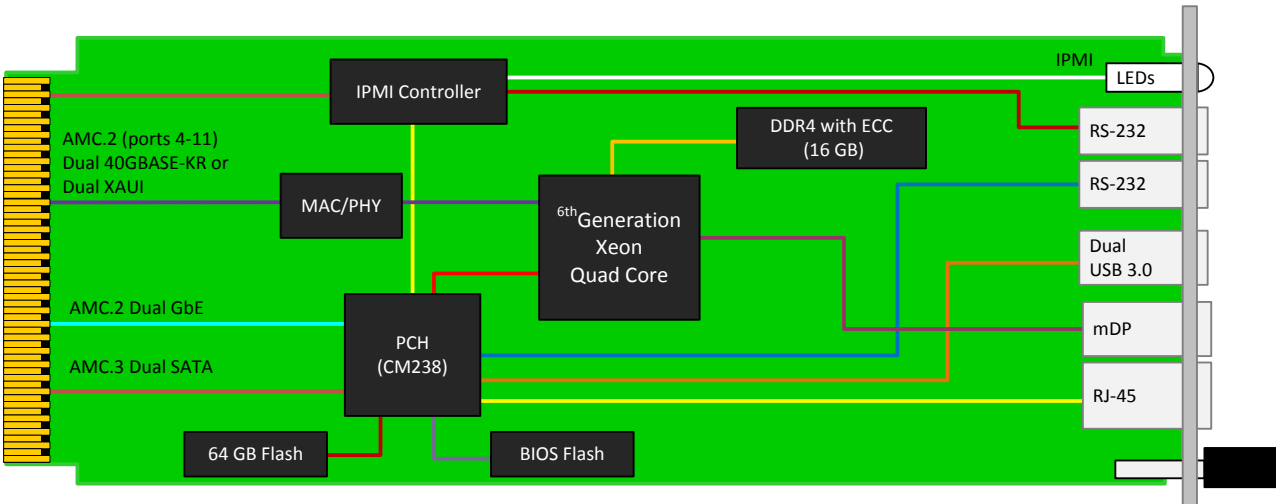
The AMC757 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® Xeon® Processor E3-1505M v6 (Kaby Lake) with CM238 PCH. The processor base frequency is 3.0 GHz with max turbo frequency of 4.0 GHz. The module follows the AMC.2 and the AMC.3 specifications.

The module provides dual 40 GbE or dual XAU1 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.

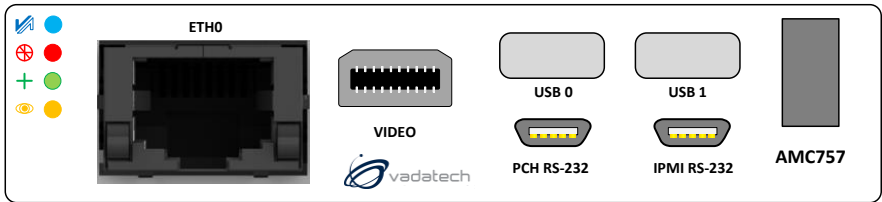
The AMC757 has up to 16 GB of DDR4 memory with ECC and 64 GB of Flash for OS. The BIOS allows booting from on board NAND, off board SATA, PXE boot as well as USB. There are dual USB 3.0 type C connectors for extended storage or peripherals.

Linux OS is standard on the AMC757, consult VadaTech for other options.

Block Diagram



Front Panel



Specifications

Architecture	
Physical	Dimensions Width: 2.89" (73.5 mm) Depth: 7.11" (180.6 mm)
Type	AMC Processor Intel Xeon E3 Processor AMC, Quad Core, 4.0 GHz
Standards	
AMC	Type AMC.0, AMC.2 and/or AMC.3
Module Management	IPMI IPMI version 2.0
10/40 GbE	Lanes Dual XAUI or dual 40GBase-KR4
Configuration	
Power	AMC756 ~58 W
Environmental	Temperature Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and extended versions also available (See environmental spec sheet) Storage Temperature: -40° to +90°C
	Altitude Chassis dependent
	Relative Humidity 5 to 95 per cent, non-condensing
Front Panel	Interface Connectors 1x RJ-45 for GbE 2x USB type C connectors for USB 3.0 2x Micro USB for 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)
Conformal Coating	Humiseal 1A33 Polyurethane (Optional) Humiseal 1B31 Acrylic (Optional)
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 ATCA and μ TCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), 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.

Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

Ordering Options

AMC757 – ABC-000-00J

A = DDR4 Memory		
0 = Reserved 1 = 16 GB		
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 = Mid-size, MTCA.1 (captive screws) 6 = Full-size, MTCA.1 (captive screws)		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

* Edge of module for conduction cooled boards, consult factory for availability

Related Products

UTC004



- Unified 1GHz 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, 936 W (available in 468 W)
- Hot swappable with support for power module redundancy

VT866



- µTCA 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

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014

Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhua Street, Neihu District, Taipei 114, Taiwan

Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR

Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

Choose VadaTech

We are technology leaders

- First-to-market silicon
- Constant innovation
- Open systems expertise

We commit to our customers

- Partnerships power innovation
- Collaborative approach
- Mutual success

We deliver complexity

- Complete signal chain
- System management
- Configurable solutions

We manufacture in-house

- Agile production
- Accelerated deployment
- AS9100 accredited



vadatech
THE POWER OF VISION

Trademarks and Disclaimer

The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.

© 2017 VadaTech Incorporated, All rights reserved.
DOC NO. 4FM737-12 REV 01 | VERSION 1.0 – APR/17