AMC756

Intel Xeon E3 Processor AMC, PCIe Gen3

AMC756

Key Features

- Processor AMC Intel® Xeon® Processor E3-1505M v6 (Kaby 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

- 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

- 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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AMC756

The AMC756 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.1, AMC.2 and the AMC.3 specifications.
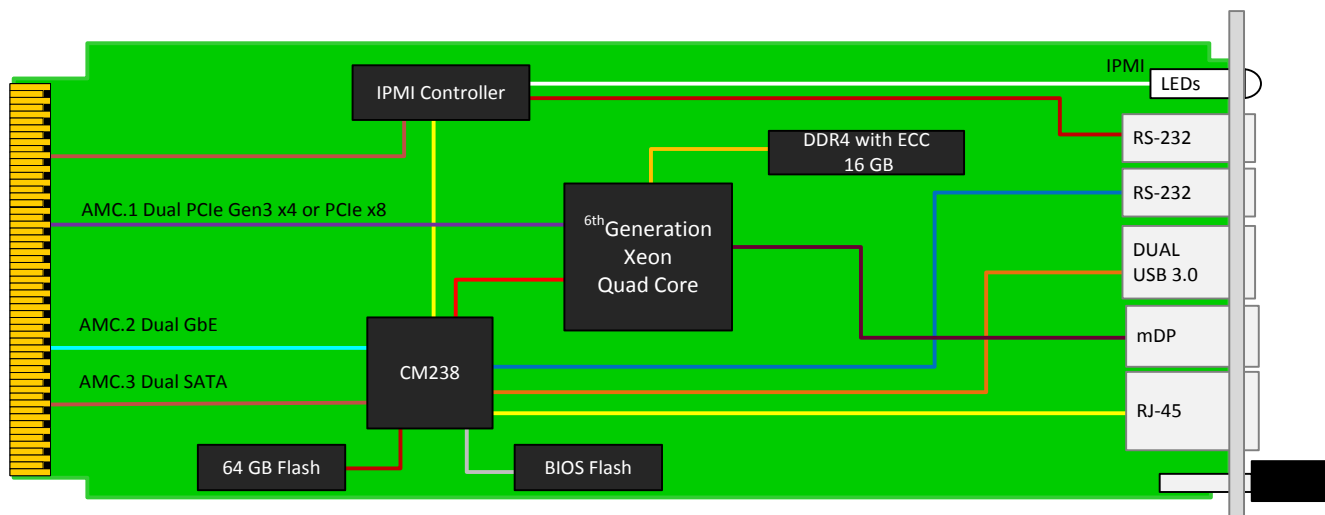
The module provides dual PCIe Gen3 x4 or single x8 on ports 4-11 per AMC.1, GbE on ports 0 and 1 per AMC.2, and SATA on ports 2 and 3 per AMC.3. It also provides GbE to the front panel.

The AMC756 provides up to 16 GB of DDR4 memory with ECC and 64 GB of Flash for the OS. The module has Serial over LAN (SoL).The BIOS allows booting from on-board Flash, off-board SATA, PXE boot and USB. There are dual USB 3.0 type C connectors for extended storage or peripherals.
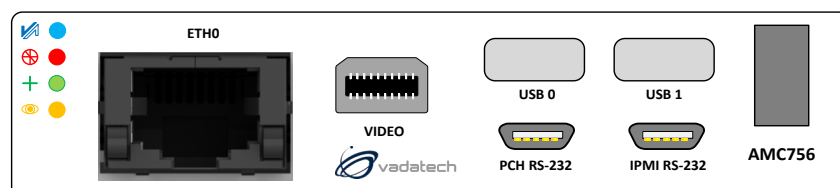
Linux OS is standard on the AMC756, consult VadaTech for other options.

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.1, AMC.2 and/or AMC.3
Module Management	**IPMI**	IPMI version 2.0
PCIe	**Lanes**	Single x8 or dual x4 as PCIe Gen3

Configuration		
Power	**AMC756**	~53 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 µTCA 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.

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Ordering Options

AMC756 – 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

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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