AMC759

Intel Xeon E3 Processor AMC, SRIO Gen2

AMC759

Key Features

- Processor AMC Intel® Xeon® Processor E3-1505M v6 (Kaby Lake)
- SRIO Gen2 on ports 4-7 and 8-11 (AMC.4)
- 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
- 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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AMC759

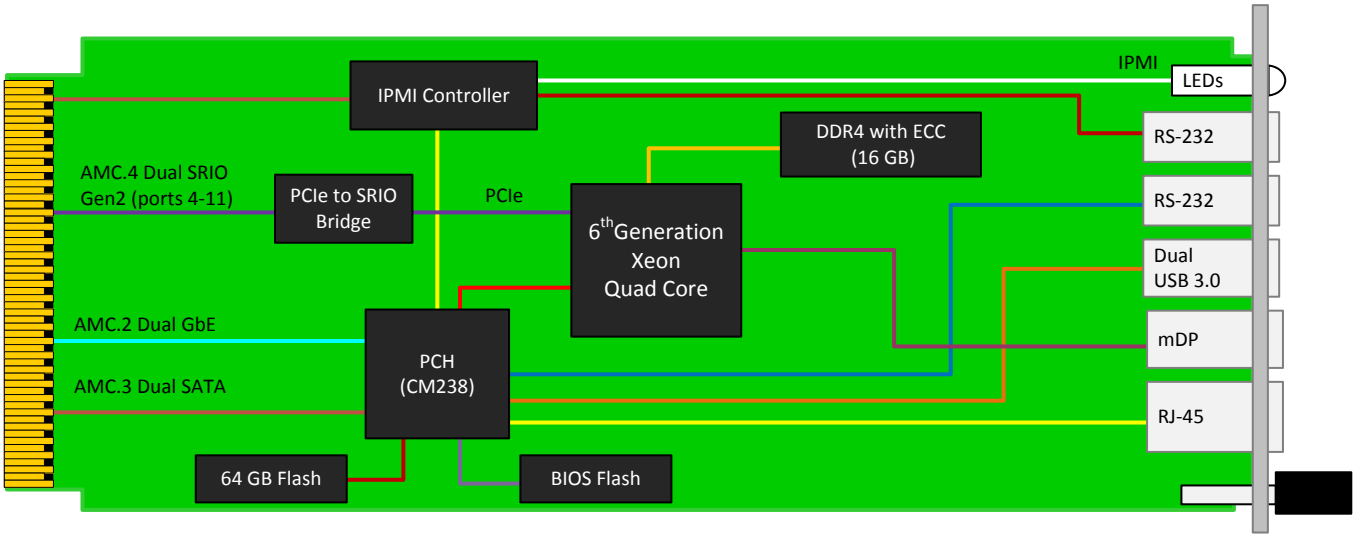
The AMC759 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® Xeon® Processor E3-1505M v6 (Kaby Lake) with CM238 PCH. The processor base frequency is 3.0 GHz with max turbo frequency of 4.0 GHz. The module follows the AMC.2, AMC.3 and AMC.4 specifications.

The module provides dual SRIO Gen2 on ports 4-11 per AMC.4, 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.

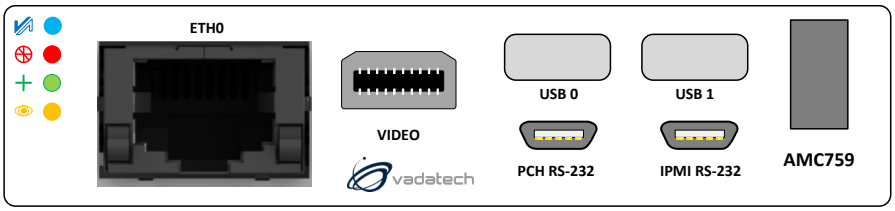
The AMC759 has up to 16 GB of DDR4 memory with ECC and 64 GB of Flash for OS. The BIOS allows booting from on board NAND, off board SATA, PXE boot as well as USB. There are dual USB 3.0 type C connectors for extended storage or peripherals.

Linux OS is standard on the AMC759, 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, AMC.3 and AMC.4
Module Management	**IPMI**	IPMI version 2.0
SRIO	**Lanes**	Dual SRIO x4 Gen2
Configuration		
Power	**AMC759**	~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 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.

Trademarks and Disclaimer

Ordering Options

AMC759 – 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*

* Conduction cooled, temperature is at edge of module. 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

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