AMC726

Processor Intel Core i7, PCI Gen 3, AMC

AMC726

Key Features

- Processor AMC Intel® 4th Generation Core i7-4700EQ with QM87 chipset
- PCIe Gen3 x4 on ports 4-7 and 8-11 or single PCIe x8 on ports 4-11 (AMC.1)
- Serial over LAN
- 8/16 GB of DDR3 memory with ECC
- 32 or 64 GB of Flash memory
- Single module, mid-size (option for full-size) per AMC.0

Benefits

- High performance Core i7 processor with QM87 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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AMC726

The AMC726 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® 4th generation Core i7 Processor (Haswell) with QM87 PCH. The module follows the AMC.1, AMC.2 and the AMC.3 specifications.

The module provides 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 AMC726 provides up to 16 GB of DDR3 memory with ECC and 32/64 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 AMC726, consult VadaTech for other options.

Figure 1: AMC726

Block Diagram

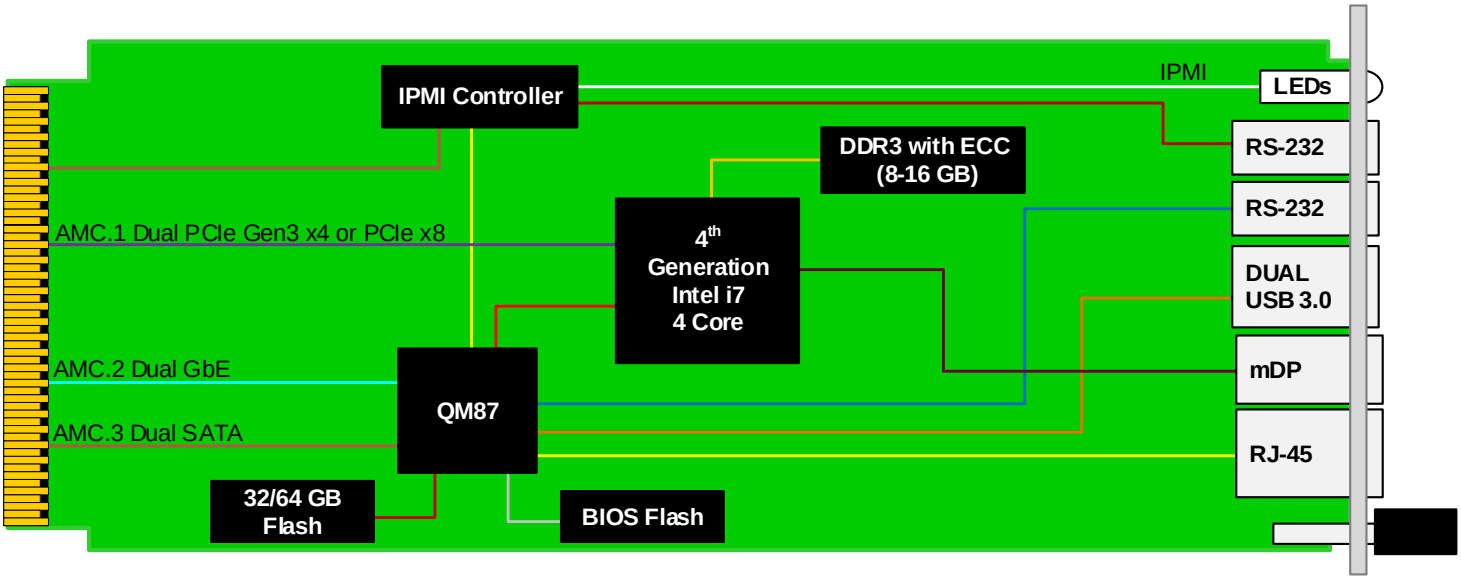

Figure 2: AMC726 Functional Block Diagram

Front Panel

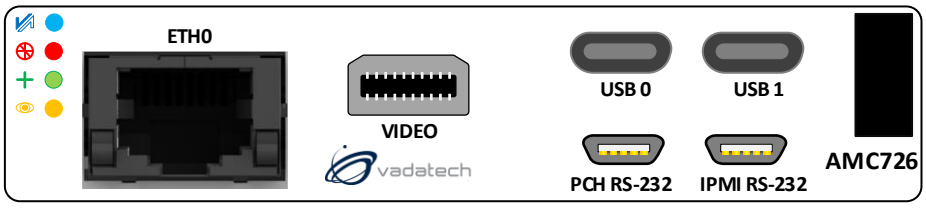

Figure 3: AMC726 Front Panel

Specifications

Architecture		
Physical	**Dimensions**	Single-module, Mid-size (Full-size options)
		Width: 2.89” (73.5 mm)
		Depth 7.11” (180.6 mm)
Type	**AMC Processor**	Intel® 4th Generation Core i7 with four cores up to 3.4 GHz
Standards		
AMC	**Type**	AMC.1, AMC.2 and/or AMC.3
Module Management	**IPMI**	IPMI v2.0
PCIe	**Lanes**	Dual x4 or single x8 as PCIe Gen3
Configuration		
Power	**AMC726**	~ 58 Watts
Environmental	**Temperature**	See ordering options and environmental spec sheet
		Storage Temperature: –40° to +85°C
	Altitude	40,000 ft non-operating
	Vibration	Operating 9.8 m/s^2 (1 G), 5 to 500 Hz
	Shock	Operating 325 G/2ms, 160 G/1ms
	Relative Humidity	5 to 95% non-condensing
Front Panel	**Interface Connectors**	RJ-45 for GbE
		USB 3.0 Type C for Dual USB
		Micro USB for Dual RS-232
		mini Display Port for Graphics output
	LEDs	IPMI management control
		Activity/Link user LEDs
	Mechanical	Hot swap ejector handle
Software Support	**Operating System**	Linux, VxWorks and Windows
Other		
MTBF	MIL Hand book 217-F@ TBD hrs	
Certifications	Designed to meet FCC, CE and UL certifications, where applicable	
Compliance	RoHS	
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

AMC726 – ABC-000-00J

A = DDR3 Memory		
0 = 8 GB 1 = 16 GB		
B = Flash Storage		
0 = 32 GB 1 = 64 GB		
C = Front Panel Size		**J = Temperature Range and Coating***
1 = Reserved 2 = Mid-size 3 = Full-size 4 = Mid-size SLF*, single screw 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**

Notes: *The VadaTech Single Latching Flange (SLF) design provides one latching flange and screw on the left side of the AMC front panel

**Conduction cooled, temperature is at edge of module. Consult factory for availability.

Related Products

UTC004

- Unified 1 GHz quad-core CPU for MicroTCA Carrier Management Controller (MCMC), Shelf Manager, Clocking, and Fabric management
- 1GbE base switch with dual 100/1000/10 G uplink
- 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

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
- Cascade any number of 1U Carriers for Fabric expansion and management

Contact

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