

AMC726 – Processor AMC, Intel Core i7, PCIe Gen 3

PrAMC Core i7 PCI Gen 3



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
- GbE to port 0 and 1 (AMC.2)
- SATA to port 2 and 3 (AMC.3)
- Video output via mini DP connector
- GbE to the front panel
- 8/16 GB of DDR3 memory with ECC
- 32 or 64 GB of Flash memory
- IPMI 2.0 compliant
- Single module, mid-size (option for full-size) per AMC.0

AdvancedMC™

Benefits of Choosing VadaTech

- High performance Core i7 processor with QM87 PCH
- Graphics output via Mini Display Port
- 16 GB DDR3 and 32/64 GB Flash memory
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- AS9100 and ISO9001 certified company

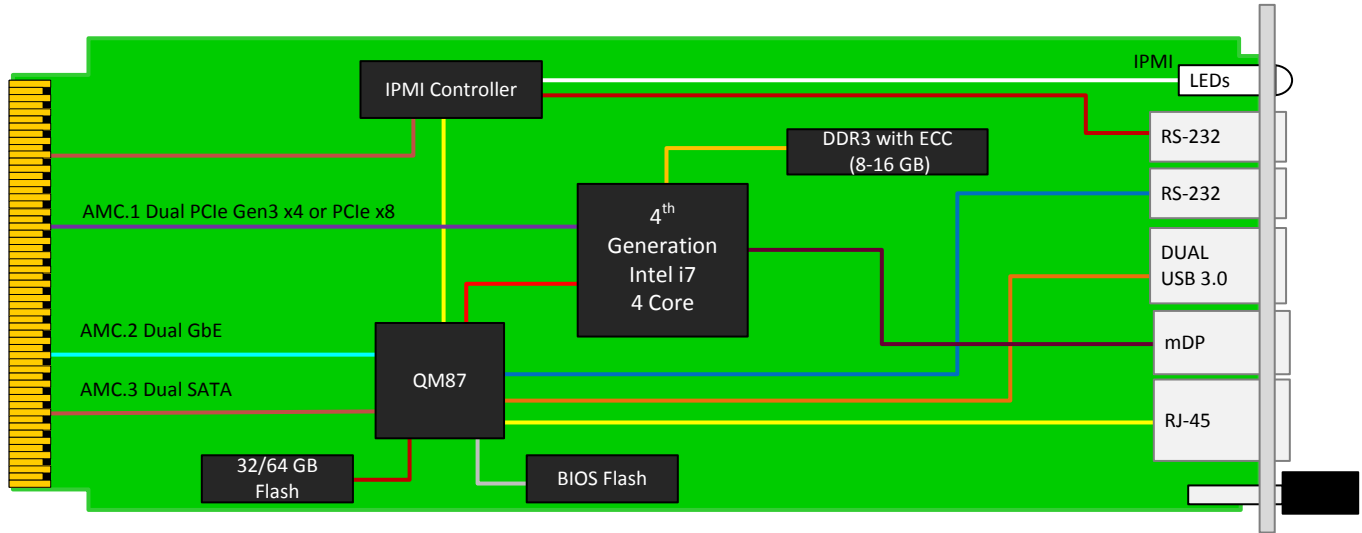
The AMC726 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® 4th generation Core i7 Processor (Haswell) with QM87 PCH. The module follows the AMC.1, AMC.2 and the AMC.3 specifications.

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.

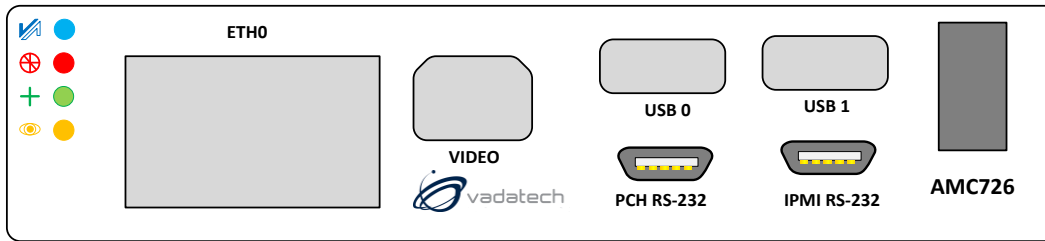
The AMC726 provides up to 16 GB of DDR3 memory with ECC and 32/64 GB of Flash for the OS. The module has Serial over LAN (SoL). The BIOS allows booting from on board Flash, off-board SATA, PXE boot and USB. There are dual USB 3.0 type C connectors for extended storage or peripherals.

Linux OS is standard on the AMC726, consult VadaTech for other options.

BLOCK DIAGRAM



FRONT PANEL



SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-module, Mid-size (Full-size options)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (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 Version 2.0
PCIe	Lanes	Dual x4 or single x8 as PCIe Gen3
Configuration		
Power	AMC726	~ 58 Watts
Environmental	Temperature	Operating Temperature: -5° to 55°C (air flow > 400LFM) industrial and military versions also available (See environmental spec sheet)
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s ² (1.0G), 5-500Hz
	Shock	Operating 325G/2ms, 160G/1ms
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	LEDs	IPMI Management Control
		Activity and User defined
	I/O	GbE via RJ-45
		Dual USB via USB 3.0 Type C
		Graphics output via mini Display Port
		Dual RS-232 via micro USB
Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Linux, VxWorks and Windows
Other		
MTBF	Per MIL-217F Handbook > 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	
Compliance	RoHS and NEBS	
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.

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ORDERING OPTIONS

AMC726 – ABC – 000 – 00J

A = DDR3 Memory

- 0 = 8 GB
- 1 = 16 GB

B = Flash Storage

- 0 = 32GB
- 1 = 64 GB

C = Front Panel Size

- 1 = Reserved
- 2 = Mid-size
- 3 = Full-size
- 4 = Reserved
- 5 = Mid-size, MTCA.1 (captive screws)
- 6 = Full-size, MTCA.1 (captive screws)

J = Temperature Range and Coating*

- 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 = Military (–40° to +85° C), Humiseal 1A33 Polyurethane
- 7 = Military (–40° to +85° C), Humiseal 1B31 Acrylic

*Edge of module for conduction-cooled boards; Consult factory for availability.

RELATED PRODUCTS



VT853 μTCA 1U Chassis
with 6 AMC slots



UTC004 MCH for μTCA
Chassis (3rd generation)



UTC020 Power Module
for μTCA Chassis

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