

## AMC727 – Processor AMC, Intel Core i7, 10/40GbE

Processor AMC, Core i7, 40GbE



### KEY FEATURES

- Processor AMC Intel® 4th Generation Core i7-4700EQ (Haswell) with QM87 chipset
- 40GbE (or 10GbE) on ports 4-7 and 8-11 (AMC.2)
- GbE to port 0 and 1 (AMC.2) and SATA to port 2 and 3 (AMC.3)
- Video output via mini DisplayPort
- GbE to the front panel
- 8/16 GB of DDR3 memory with ECC
- 32/64 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
- Availability of chassis supporting 40G-capable backplanes
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company

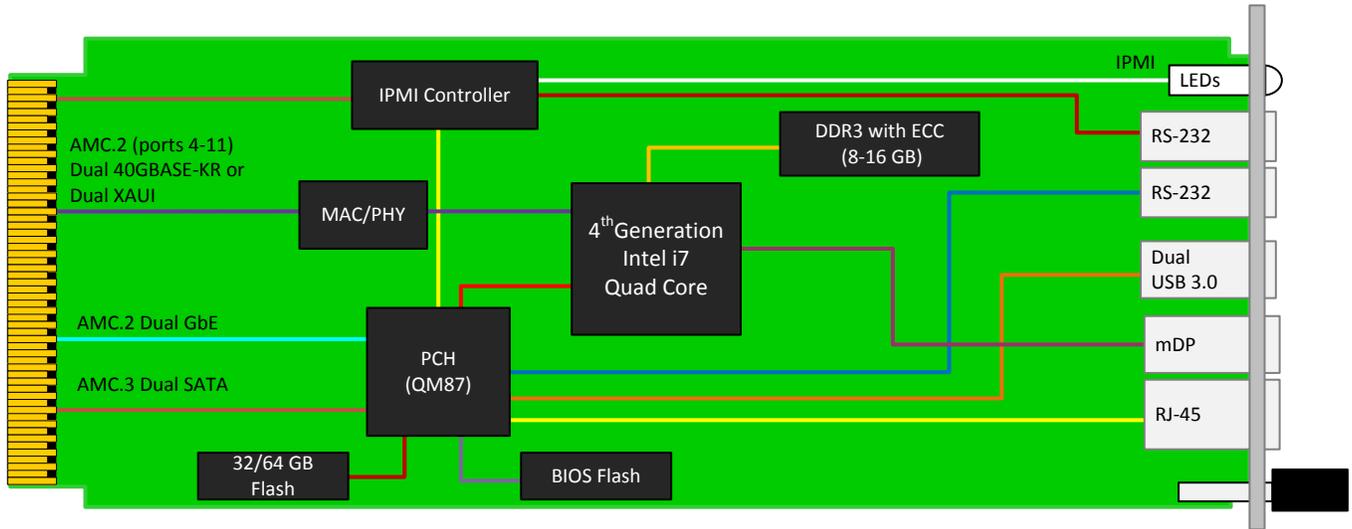
The AMC727 is a Processor AMC (PrAMC) in a single module, mid-size AdvancedMC (AMC) form factor based on the Intel® next generation Core™ i7 Processor (Haswell) with QM87 PCH. The module follows the AMC.2 and the AMC.3 specifications.

The module provides dual 40GbE 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.

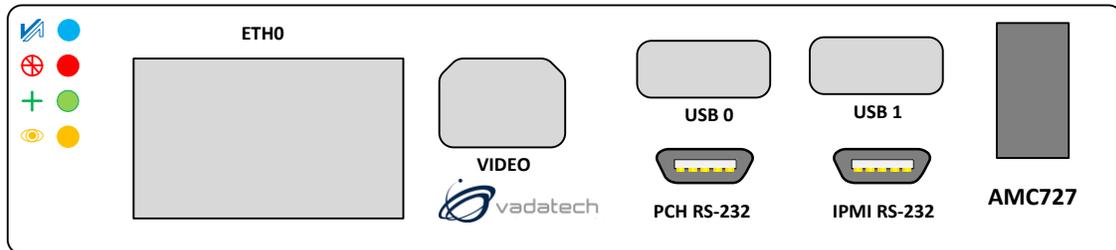
The AMC727 has up to 16 GB of DDR3 memory with ECC and 32/64 GB of Flash for OS. The BIOS allows booting from on board NAND, off board SATA, PXE boot as well as USB. There are dual USB 3.0 type C connector for extended storage or peripherals.

Linux OS is standard on the AMC727, 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 3.4 GHz
Standards		
AMC	Type	AMC.2 and/or AMC.3
Module Management	IPMI	IPMI Version 2.0
10/40GbE	Lanes	Dual XAU1 on ports 4-11 or dual 40GBase-KR4
Configuration		
Power	AMC727	~ 58 Watt
Environmental	Temperature	Operating Temperature: -5° to 55°C (air flow > 400LFM) industrial and military versions also available (See <a href="#">environmental spec sheet</a> )
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s <sup>2</sup> (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 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

### AMC727 – 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

- 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  $\mu$ TCA 1U Chassis  
with 6 AMC slots



UTC004 MCH for  $\mu$ TCA  
Chassis (3rd generation)



UTC020 Power Module  
for  $\mu$ TCA Chassis

## CONTACT US

#### VadaTech Corporate Office

198 N. Gibson Rd.  
Henderson, NV 89014  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: (702) 896-3337  
Fax: (702) 896-0332

#### Asia Pacific Sales Office

7th Floor, No. 2, Wenhui Street, Neihu District,  
Taipei City, Taiwan 11445  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +886-2-2627-7655  
Fax: +886-2-2627-7792

#### VadaTech European Sales Office

VadaTech House, Bulls Copse Road,  
Southampton, SO40 9LR  
Email: [info@vadatech.com](mailto:info@vadatech.com)  
Telephone: +44 2380 381982  
Fax: +44 2380 381983