

## AMC Wireless Access Point – AMC227

AMC Wireless Access



**AdvancedMC™**

### KEY FEATURES

- Single module, mid-size per AMC.0
- AMC.2 compliant
- Seamless Wi-Fi capability to the system
- Wireless IEEE standards 802.11b; 802.11g and 802.11n
- WPA2/802.11i enterprise-grade security and authentication protocols
- WPS 2.0 implementation
- Includes full TCP/IP stack, CGI
- 32-bit MIPS Processor
- Data Rates with Automatic Fall-back: 54 Mbps to 1 Mbps
- Range: Up to 328 feet indoors (100m)
- Managed Layer two switch
- IPMI v2.0 compliant
- RoHS compliant

### Benefits of Choosing VadaTech

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC227 is a single width, mid-size (full-size option available) AdvancedMC™ (AMC) based on the AMC.2 specification. The AMC227 provides seamless Wi-Fi capability to the system.

The AMC227 features a powerful 32-bit 454 MHz Freescale i.MX28 processor with an 802.11a/b/g/n radio, complete TCP/IP network protocol stack, optimized wireless radio driver and a managed layer two switch.

The AMC227 goes far beyond compliance of the 802.11i, WPOA and WPA2 wireless security specifications and supports WEP, WPA and WPA2 including 802.1x Extensible Authentication Protocol (EAP) types. The AMC227 comes with complete suite of 802.1x Enterprise Authentication Protocols WEP/WPA/WPA2 802.11x (LEAP, PEAP, TLS, TTLS, FAST).

It ensures data integrity and privacy for highly sensitive requirements. WPS 2.0 implementation makes it easy to add new devices to an existing network without entering long passphrases

## INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and  $\mu$ 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.

## BLOCK DIAGRAM

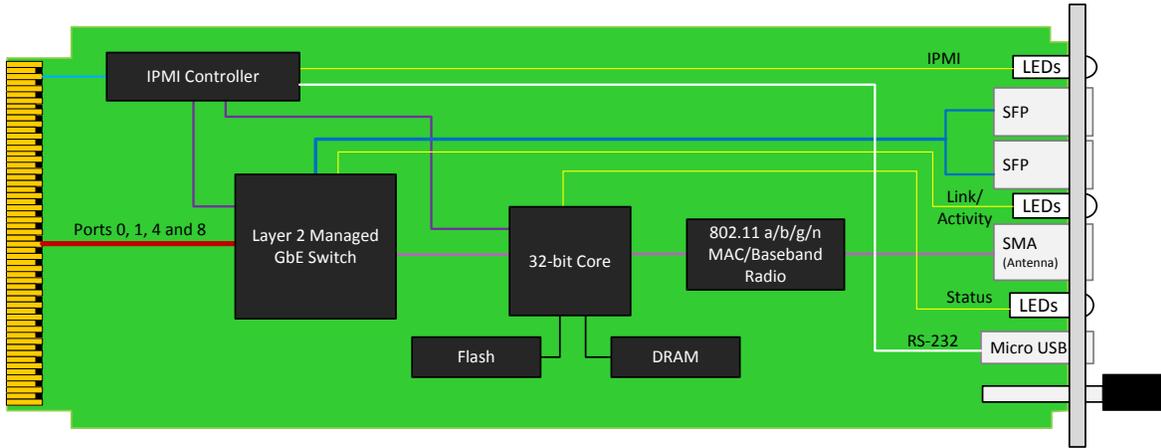


Figure 1: AMC227 Block Diagram

## FRONT PANEL

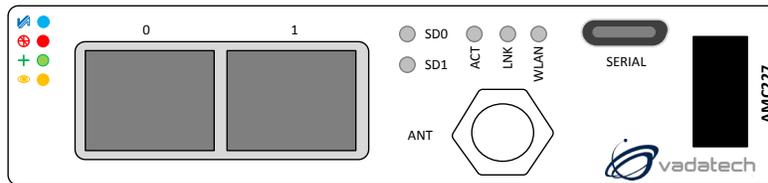


Figure 2: AMC227 Front Panel



Figure 3: AMC227 with an Antenna

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Width: 2.89" (73.5 mm)
		Depth 7.11" (180.6 mm)
		Single module, mid-size (full-size options available)
Type	AMC Wireless Access	IEEE 802.11b; 802.11g and 802.11n
Standards		
AMC	Type	AMC.0 and AMC.2
Module Management	IPMI	IPMI version 2.0
Configuration		
Power	AMC227	5W
Environmental	Temperature	Operating temperature: -5° to 45°C (55°C for limited time, performance restrictions may apply), (See <a href="#">environmental spec sheet</a> )
		Storage Temperature: -40° to +85°C
	Vibration	Operating 9.8 m/s <sup>2</sup> (1G), 5 to 500Hz on each axis
	Shock	Operating 30Gs each axis
	Relative Humidity	5 to 95 per cent, non-condensing
Front Panel	Interface Connectors	GbE via dual SFP
		SMA for Wi-Fi Antennae
		IPMI RS-232 via micro USB
	LEDs	IPMI management control
		Activity / Link / Status LEDs
Mechanical	Hot swap ejector handle	
Software Support	Operating System	Independent
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	
Trademarks and Disclaimer	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice	

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## ORDERING OPTIONS

### AMC227 – ABC – 000 – 00J

#### A = GbE Ports Routed to the Rear

- 1 = AMC Ports 0 and 1
- 2 = AMC Ports 0, 1, 4 and 8

#### B = SFP Transceivers

- 0 = None
- 1 = Copper (10/100/1000)
- 2 = Fiber SX
- 3 = Fiber LX

#### C = Front Panel Size

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

#### J = Temperature Range and Coating

- 0 = Commercial, No coating
- 1 = Commercial, Humiseal 1A33 Polyurethane
- 2 = Commercial, Humiseal 1B31 Acrylic
- 3 = Industrial, No coating
- 4 = Industrial, Humiseal 1A33 Polyurethane
- 5 = Industrial, Humiseal 1B31 Acrylic
- 6 = Military, Humiseal 1A33 Polyurethane\*
- 7 = Military, Humiseal 1B31 Acrylic\*

## RELATED PRODUCTS



UTC004 40GbE  
MCH



UTC008 JTAG  
Switch Module



UTC010 792W  
Power Module

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