**AMC Wireless Access Point – AMC227**

**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

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.

**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

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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.

BLOCK DIAGRAM

Figure 1: AMC227 Block Diagram

FRONT PANEL

Figure 2: AMC227 Front Panel

Figure 3: AMC227 with an Antenna
# AMC Wireless Access Point – AMC227

## SPECIFICATIONS

| Architecture | Dimensions | Width: 2.89" (73.5 mm)  
|              |            | Depth: 7.11" (180.6 mm)  
|              | Type       | AMC Wireless Access  
| Standards    |            | IEEE 802.11b; 802.11g and 802.11n  
| AMC          | Type       | AMC.0 and AMC.2  
| Module Management | IPMI | IPMI version 2.0  
| Configuration | Power     | AMC227  
|              |            | 5W  
| Environmental | Temperature | Operating temperature: -5°C to 45°C (55°C for limited time, performance restrictions may apply), (See [environmental spec sheet](#))  
|              | Storage Temperature | -40°C to +85°C  
|              | Vibration   | Operating 9.8 m/s² (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 |
AMC Wireless Access Point – AMC227

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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