

AMC229 KEY FEATURES

- AMC.2 compliant
- Managed Layer two 10GbE switch
- Eight 10GbE Ethernet ports via front panel SFP+ (each port has an option to run at 1GbE)
- Three 10 GbE routed to the rear as XAUI (option to run as 10GBase-KR, 802.3ap)
- Two 1GbE routed to the rear with option to run as 10GBase-KR
- Support up to 8K MAC address
- 4K IEEE 802.1Q VLANs
- VLAN-based packet filtering
- Packet classification using IEEE802.1p QoS
- 16K Jumbo frames
- Spanning tree
- Mirroring
- QoS
- SNMP and RMON
- OS support for:
 - OS independent

The AMC229 is a single-width, full-height AdvancedMC™ (AMC) based on the AMC.2 specification. The AMC229 provide 8 front panel 10GbE ethernet ports via SFP+. It routes two 1GbE (these could run as 10GBase-KR, 802.3ap) to ports 0 and 1. In addition it has three XAUI to ports 4-7, 8-11 and 17-20. Any of the XAUI ports could also run as 10GBase-KR.

The SFP+ allows a mix of 10GbE and 1GbE transceiver.

The switch is managed via telnet and supports a rich set of features such as VLAN, RSTP, QoS, Mirroring, etc. The RS-232 in the front panel can also be used to manage the switch.

VadaTech can modify this product to meet special customer requirements without NRE (minimum order placement is required).

AdvancedMC™

13 Port AMC 10GbE Managed Layer Two Switch

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Full-Height
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Ethernet	10GbE switch 13 ports 10GbE per port
Standards		
AMC	Type	AMC.2
Module Management	IPMI	IPMI Version 2.0
10GBASE-KR	Ports	0, 1, 4, 8 and 17
Configuration		
Power	AMC229	20W
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM)
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
Front Panel	Relative Humidity	5 to 95 percent, non-condensing
	Interface Connectors	SFP+
	LEDs	IPMI Management Control
		Signal Detect
Mechanical	Hot Swap Ejector Handle	
Software Support	Operating Systems	Independent
Other		
MTBF	MIL Handbook 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	
Compliance	RoHS and NEBS	
Warranty	Two (2) years.	
Trademarks and Logos	The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedMC™ and the AdvancedTCA™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice.	

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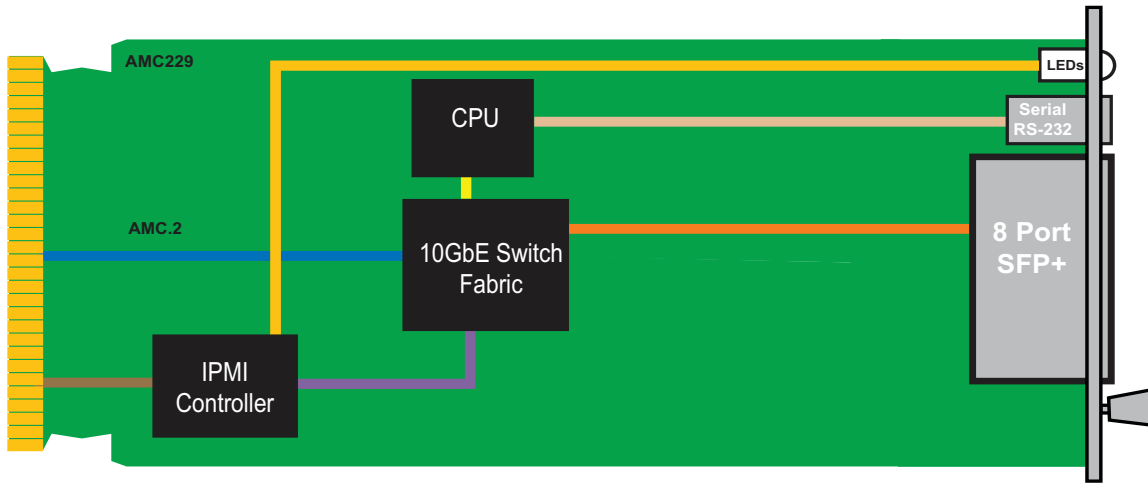
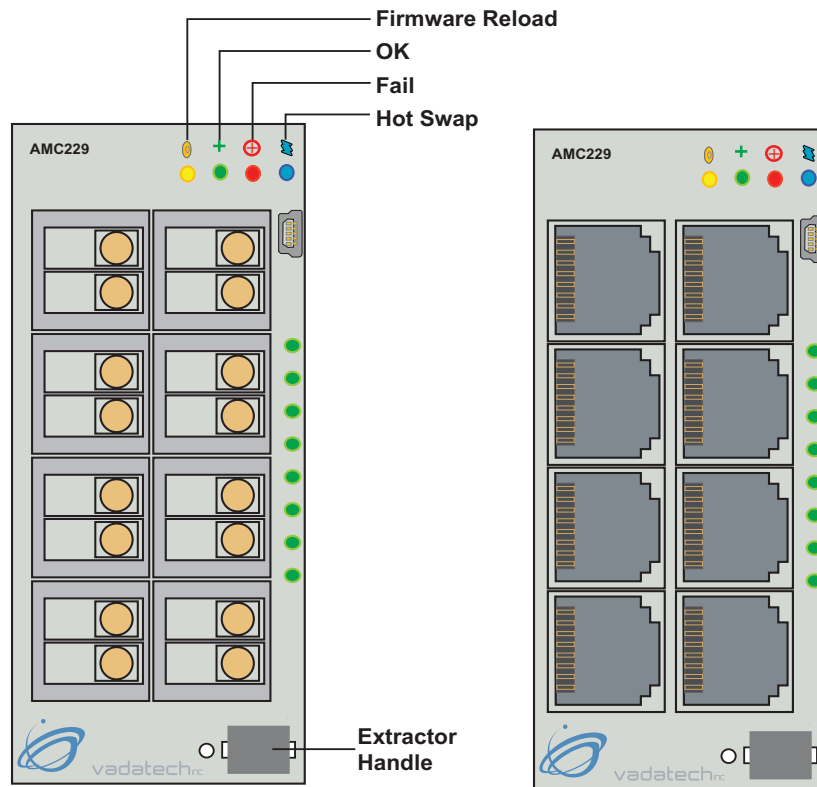


FIGURE 1. AMC229 Functional Block Diagram

FIGURE 2. AMC229 Front Panel. Any combination of Fiber (10GbE and 1 GbE) and Copper (1000Base-TX) is allowed



Managed Layer Two GbE

10 GbE Layer 2 Managed switch

The 10GbE switch fabric is layer two managed. There is option for light management.

Key features:

- ❖ Spanning Tree Protocol (STP)
- ❖ Rapid Spanning Tree Protocol (RSTP)
- ❖ Multiple Spanning Tree Protocol (MSTP)
- ❖ Virtual LANs (VLANs)
- ❖ Generic Attribute Registration Protocol (GARP)
- ❖ Generic Multicast Registration Protocol (GMRP)
- ❖ Generic VLAN Registration Protocol (GVRP)
- ❖ Port Authentication
- ❖ Internet Group Management Protocol (IGMP) (Version 1, 2, and 3) Snooping/Proxy
- ❖ Multicast Listener Discovery (Version 1, 2) Snooping/Proxy
- ❖ Provider Bridging IEEE802.1 ad/D6.0
- ❖ Multiple Registration Protocol (MRP) IEEE802.1ak/D4.0
- ❖ Multiple multicast Registration Protocol (MMRP) IEEE802.1ak/D4.0
- ❖ Multiple VLAN Registration Protocol (MVRP) IEEE802.1ak/D4
- ❖ Link Layer Discovery Protocol IEEE802.1AB 2005
- ❖ Ethernet OAM IEEE 802.3ah -2004 clause 57
- ❖ Connectivity Fault Management IEEE802.1ag -d6.0
- ❖ Link Aggregation - Static; IEEE802.3ad (2002); IEEE8023 LAG-MIB

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ORDERING OPTIONS

AMC229 - ABC - DEF - GHJ

A = Number of Fiber 10GBase-SR*

0 = None
X = Number of Transceivers

D = Number of Copper 1000Base-TX*

0 = None
X = Number of Transceivers

G = Layer two managed

1 = Layer 2 Light Managed 10GbE
2 = Layer 2 Managed 10GbE

B = Number of Fiber 10GBase-LR*

0 = None
X = Number of Transceivers

E = Number of Fiber 1GbE SX*

0 = None
X = Number of Transceivers

H = AMC ports routed

0 = Ports 0, 1, 4-7, 8-11 and 17-20
1 = Ports 0, 1, 8-11 and 17-20
2 = Ports 0, 1 and 17-20
3 = Ports 0 and 1

C = Front Panel Height

1 = Reserved
2 = Reserved
3 = Full-Height

F = Number of Fiber 1GbE LX*

0 = None
X = Number of Transceivers

J = Conformal Coating

0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

* Total number of transceivers must add up to 8



Document No _____ Date: June 2009, Pass one

