



### KEY FEATURES

- AMC.2 compliant (XAUI based)
- 10GbE or 1GbE via front panel SFP+ (Copper GbE SFP is allowed)
- XAUI to the backplane
- Media converter or straight-through between two ports
- Ingress mirroring to third port
- Physical layer mirroring
- Fully Adaptive Electronic Dispersion Compensation (EDC)
- Integrated BER Tester, and PRBS, Packet, and programmable Pattern Generation and checking.
- Compliant to applicable IEEE and INCITS specs
- OS agnostic

The AMC225 is a single-width, mid-height (with full-height option) AdvancedMC™ (AMC) based on the AMC.2 specification. The AMC225 provides two front panel SFP+ ports (10GbE or 1GbE option) and a backplane XAUI port. The physical layer connectivity between these three ports can be configured using an on-board high-speed signal matrix to create a direct connection (with or without media conversion) between any two ports plus the ability to mirror the ingress traffic on one of the ports to a third port.

When mirroring is enabled, the AMC225 acts as a 10GbE network tap which can be used for critical security and monitoring applications such as network intrusion detection/prevention, performance analytic, etc. The mirrored port causes no degradation to the direct-connected ports which continue to operate at full line rate. Since the mirroring is done at the physical level (Layer 1) rather than the Ethernet frame level (Layer 2), there is never a possibility for the AMC225 to drop a frame due to congestion as can happen with a typical Layer 2 switch mirroring port.

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

**AdvancedMC™**

# AMC dual SFP+ and XAUI Media Converter/TAP

## SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Mid-Height Front Panel (option for full-height)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Ethernet	10GbE Dual-port 10 Gb/s per port
Standards		
AMC	Type	AMC.2
Module Management	IPMI	IPMI Version 2.0
XAUI	Ports	4-7
Configuration		
Power	AMC225	8W
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	Dual SFP+ Connectors
	LEDs	IPMI Management Control
		Activity
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.	

# AMC dual SFP+ and XAUI Media Converter/TAP

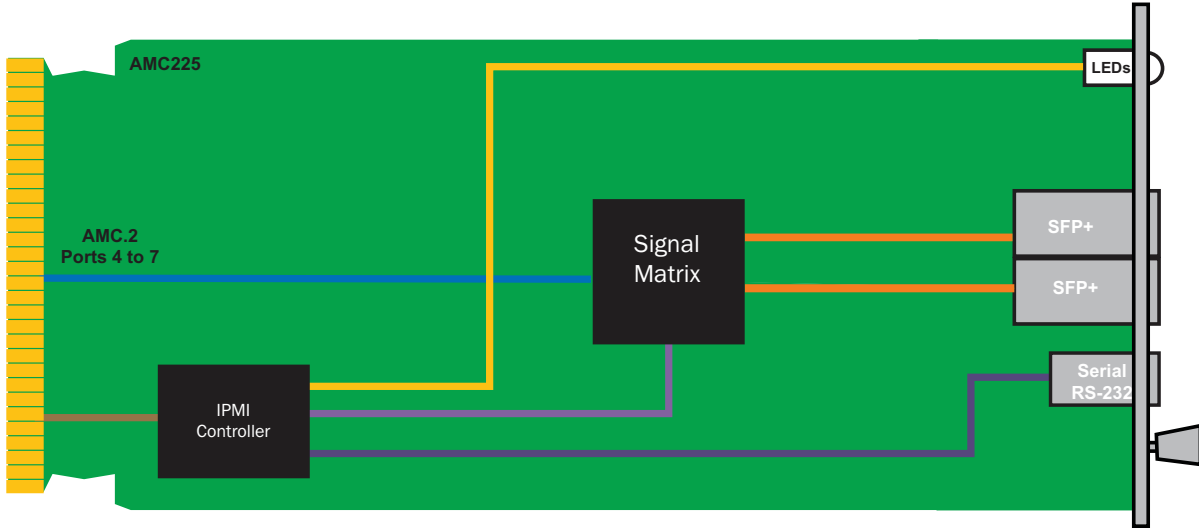
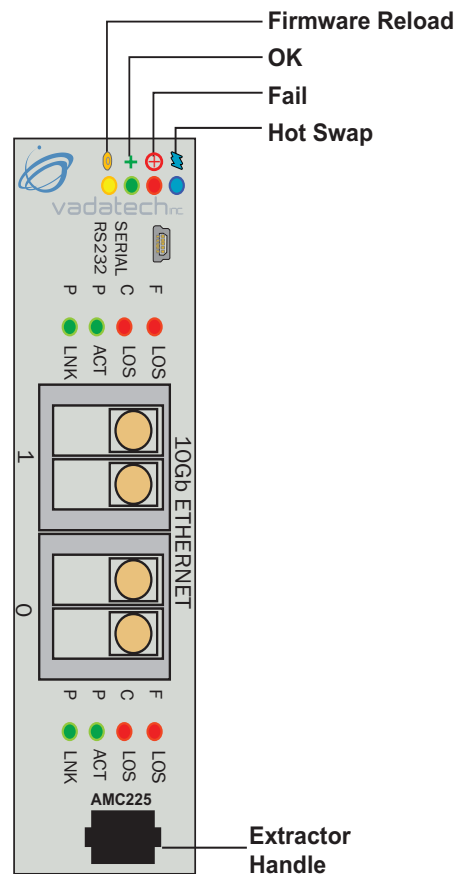


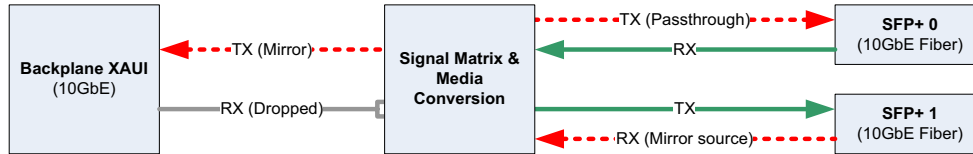
FIGURE 1. AMC225 Functional Block Diagram

FIGURE 2. AMC225 Front Panel



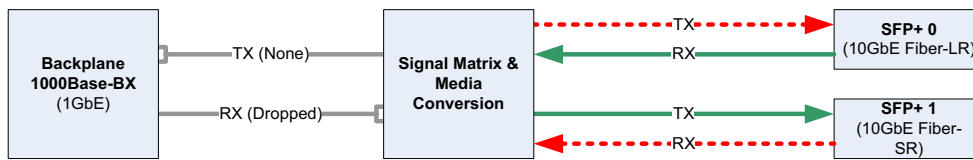
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## Use Case 1: 10 GbE Fiber Tap



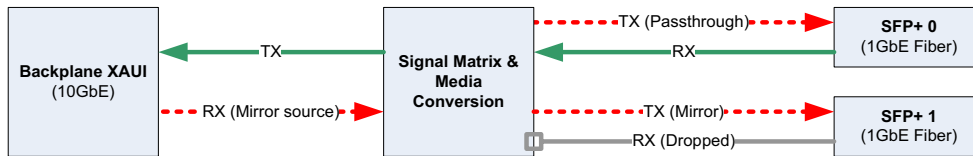
**Note:** This is just one example. All three ports are equally capable. Any port may be designated the mirror port and the other two ports will be direct-connect.

## Use Case 2: 10GbE SR to 10GbE / LR Fiber Media Converter



**Note:** This is just one example. All three ports are equally capable. Any two ports may be direct-connect. See ordering options for supported media types.

## Use Case 3: 1GbE Chassis Uplink Port with Monitoring



**Note:** This is just one example. All three ports are equally capable. Any port may be designated the mirror port and the other two ports will be direct-connect.

# AMC dual SFP+ and XAUI Media Converter/TAP

## ORDERING OPTIONS

### AMC225 - ABC - 000 - OHJ

#### A = SFP0+ Transceivers (port 0)\*

- 0 = GbE Copper
- 1 = GbE SX
- 2 = GbE LX
- 3 = 10GBASE-SR
- 4 = Reserved
- 5 = 10GBASE-LRM
- 6 = 10GBASE-LR

#### B = SFP1+ Transceivers (port 1)\*

- 0 = GbE Copper
- 1 = GbE SX
- 2 = GbE LX
- 3 = 10GBASE-SR
- 4 = Reserved
- 5 = 10GBASE-LRM
- 6 = 10GBASE-LR

#### C = Front Panel Height

- 1 = Reserved
- 2 = Mid-Height
- 3 = Full-Height

#### H = Operating Temp

- 1 = Commercial
- 2 = Industrial

#### J = Conformal Coating

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

\*Note: Both Transceivers must have the same speed



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