

AMC Dual Channel Dual Link DVI/VGA

AMC345



KEY FEATURES

- Based on ATI graphics accelerator with parallel processing Unified Shader architecture
- Provides two independent high-performance Dual Link DVI or VGA Channels
- AMC.1 compliant
- PCIe x4 or x8 lanes PCIe Gen2 compatible
- Single-width, mid-height or full-height (see ordering options)
- Maximum Dual Link Resolution per display 3840x2400
- Full feature symmetry in both controllers
- Up to 512MB of GDDR3 Memory
- Optimized for DirectX 10 and Open GL 2.1
- Optional "Y" adapter cable to convert the HDC (High Density Connector) to DVI-I (has both DVI-D and VGA available)
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
 - Linux
 - Windows
 - Solaris

The AMC345 is VadaTech third generation AMC graphic module. Designed to meet the high performance real-world graphics needs of Medical and Military applications. The AMC345 is the fastest and the most advanced, high-performance 3D graphics processors available for the embedded market.

The board features ATI's graphics processor chipset which provides dual-channel dual link DVI/VGA with support for 512Mbytes of GDDR3 memory. The display mode supports high screen resolutions up to 3840x2400.

High Dynamic Range (HDR) rendering with 8-bit, 10-bit and 16-bit per RGB color component. Full Shader 4.1 support for vertex and pixel shaders.

The AMC345 is AMC.1 compliant and is available in a single-width, mid or full-height AMC form factor. I/O connectivity is via a High Density Connector (HDC) front panel connector.

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

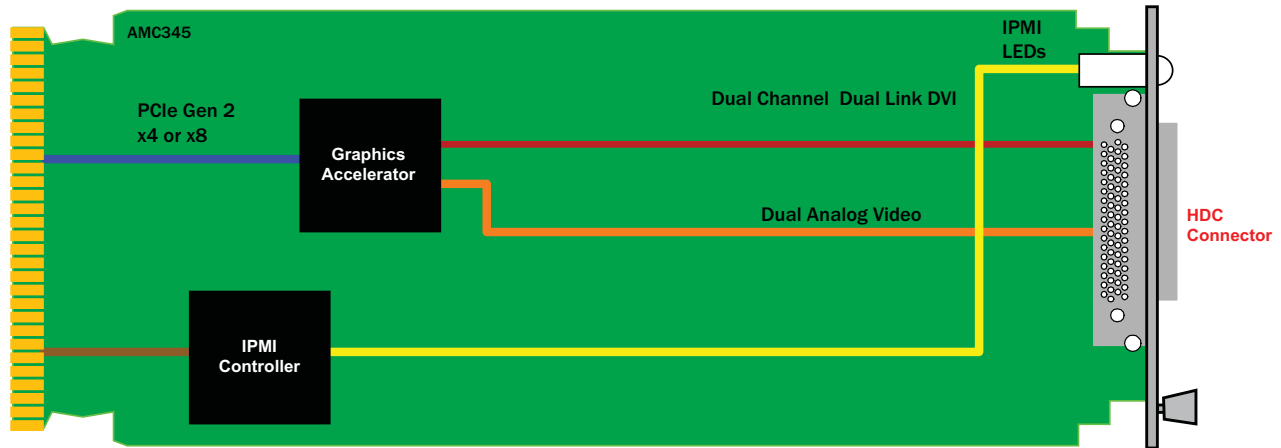
AdvancedMC™

AMC Dual Channel Dual Link DVI/VGA

SPECIFICATIONS

Architecture		
Physical	Dimensions	Single-Width, Mid-Height (with Full-Height option)
		Width: 2.89 in. (73.5 mm)
		Depth: 7.11 in. (180.6 mm)
Type	AMC Video	2 channel of Dual Link DVI-I Adapter
	Dual Ports	Dual ports using "Y" Adapter Cable, either DVI or VGA (see ordering options)
	Video Resolution	Screen resolutions up to 3840 x2400
	Memory	512MB of GDDR3 memory
Standards		
AMC	Type	AMC.1
Module Management	IPMI	IPMI Version 2.0
PCIe	Lanes	x4 or x8 Gen2
Configuration		
Power	AMC341	50W at maximum operating speed (speed is adjustable and the power can go as low as 15W)
Environmental	Temperature	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 500 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 Connector	High Density Connector (HDC)
	Adapter	HDC to two Dual Link DVI-I
	LEDs	IPMI Management Control
	Mechanical	Hot Swap Ejector Handle
Software Support	Operating Systems	Linux, Windows, Solaris and VxWorks
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	
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.	
Notes	1. HDC to two Dual Link DVI-I connectors "Y" adapter cable for digital displays can be ordered separately.	

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Note: A "Y" adapter cable is needed to take advantage of the dual displays. See ordering options for details.

FIGURE 1. AMC345 Functional Block Diagram

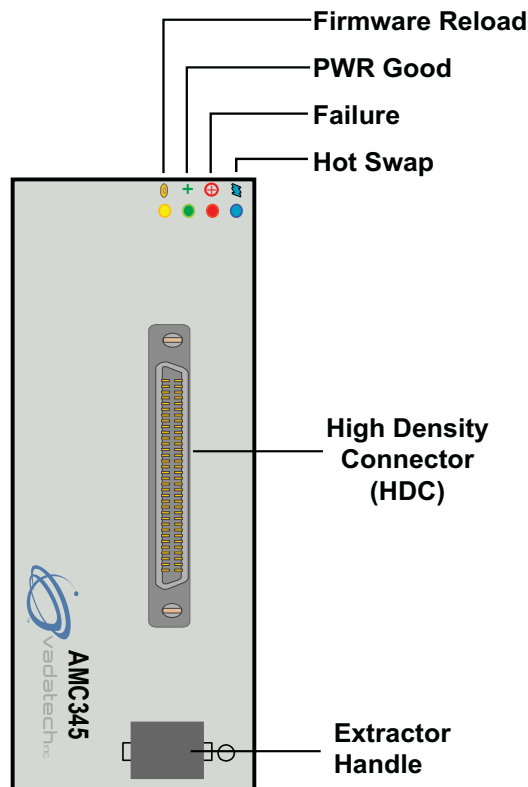


FIGURE 2. AMC345 Front Panel

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ORDERING OPTIONS

AMC345 - ABC - D00 - 00J

A = Memory

1 = 512MB GDDR3

B = Adapter Cable

0 = None

1 = HDC to Dual DVI-I

C = Front Panel Height

1 = Reserved

2 = Mid-Height

3 = Full-Height

D = PCIe Gen2 Interface lanes

0 = x4

1 = x8

J = Conformal Coating

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic



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