AMC Hex Channel DVI/VGA with HDMI Video/Audio

AMC343

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KEY FEATURES

- Based on ATI graphics processor chipset
- Provides six separate high-performance Channels
- Connection for 480p, 720p, and 1080i and 1080p
- AMC.1 compliant
- PCIe Gen2 x4 or x8 lanes
- Single-width, mid-height or full-height (see ordering options)
- 1GByte of GDDR5 Memory
- Analog Displays (VGA) 2048 x 1536
- Optimized for DirectX 11
- Optional break out adapter cable to convert the High Density Connector (HDC) to 5 DVI-D and single DVI-I
- HDMI with Multi-channel 5.1 surround audio
- IPMI 2.0 compliant
- RoHS compliant
- OS support for:
  - — Linux
  - — Windows

The AMC343 is VadaTech third generation AMC graphic module. Designed to meet the high performance real-world graphics needs of Military, Industrial and Telecom applications. The AMC343 is one of the fastest and most advanced, high-performance 2D and 3D graphics processors available for the AMC embedded market.

The board features ATI's graphics processor chip (E6760) which provides 6-channel DVI-D (channel one outputs DVI-I) Video support with up to 1Gbytes of GDDR5 memory. Support for 2560x1600 @ 60Hz, 24 bpp for each independent port.

The AMC343 is AMC.1 compliant and is available in a single-width, mid or full-height AMC form factor. I/O connectivity is via front panel connector.

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

AdvancedMC™

VadaTech Incorporated • 11540 South Eastern Avenue, Henderson, NV 89052 • Tel: (702) 896-3337 • Fax (702) 896-0332
Email: info@vadatech.com • www.vadatech.com

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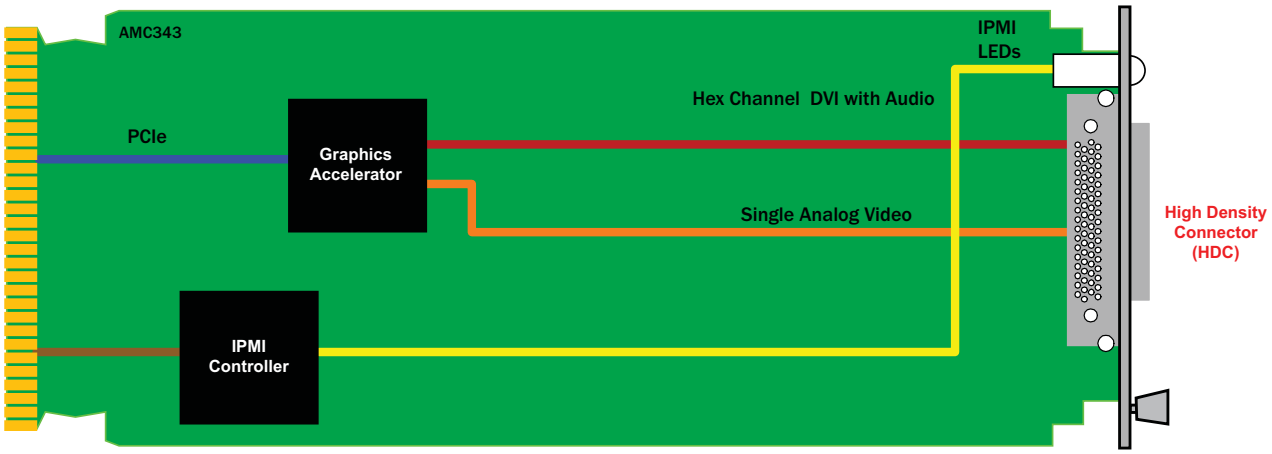
SPECIFICATIONS

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**	5 Link DVI (HDMI) and one DVI-I Video
	Hex Ports	Hex ports using break out Adapter Cable
	Video Resolution	Connection for 480p, 720p, and 1080i and 1080p
	Memory	1 GB of GDDR3 memory
Standards		
AMC	**Type**	AMC.1 PCIe Gen2
Module Management	**IPMI**	IPMI Version 2.0
PCIe	**Lanes**	x4 or x8
Configuration		
Power	**AMC343**	30W
Environmental	**Temperature**	Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 200 LFM), Conduction cooled unit does not need any air flow
		Storage Temperature: -40° to +90° C
	Vibration	1G, 5-500Hz each axis
	Shock	30Gs each axis
	Relative Humidity	5 to 95 percent, non-condensing
Front Panel	**Interface Connector**	High density connector
	Adapter	HDC to Hex Link DVI
	LEDs	IPMI Management Control
	Mechanical	Hot Swap Ejector Handle
Software Support	**Operating Systems**	Linux, Windows and Solaris
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.	



Note: A breakout adapter cable is needed to take advantage of the hex displays. See ordering options for details.

FIGURE 1. AMC343 Functional Block Diagram

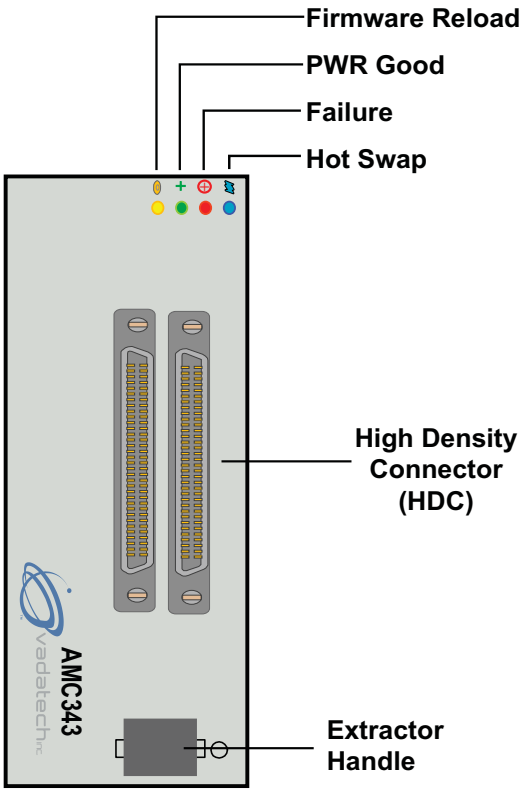


FIGURE 2. AMC343 Front Panel

ORDERING OPTIONS

AMC343 - ABC - 000 - 0HJ

A = PCIe Interface lanes

0 = x4
1 = x8

B = Adapter Cable

0 = None
1 = HDC to Hex DVI

C = Front Panel Height

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

H = Operating Temp

0 = Commercial (0° to +65°)
1 = Industrial (-20° to +70°)

J = Conformal Coating

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

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