cPCI Six Channel DVI -CP343

cPCI Six Channel DVI

KEY FEATURES

- Based on ATI graphics processor chipset
- Provides six separate high-performance DVI channels through High Density Connector (HDC)
- Supports industry standard 480p, 720p, and 1080i
- PCI-X 32-bit @ 133 MHz
- CompactPCI compliant
- Front/Rear I/O option
- 3U cPCI with option for 6U front panel
- Support for high-resolution and wide-screen displays up to 1920x1200 @ 60 Hz
- 1 GB of GDDR5 Memory
- Optimized for DirectX 10
- RoHS compliant
- OS support for Linux, Windows, Solaris and VxWorks

Benefits of Choosing VadaTech

- Uses high performance ATI graphics processor
- 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

The CP343 is second generation VadaTech graphic module. Designed to meet the high performance real-world graphics needs of Military, Industrial and Telecom applications. The CP343 is one of the fastest and most advanced, high-performance 2D and 3D graphics processors available for the cPCI 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 1920x1200 @ 60Hz, 24 bpp for each independent port. The CP343 is CompactPCI compliant and is available in 3U or 6U. I/O connectivity is via HDC connector.

The CP343 is not PCI +5V signaling compatible.

VadaTech can modify this product to meet special customer requirements. Contact us to discuss your application.

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.
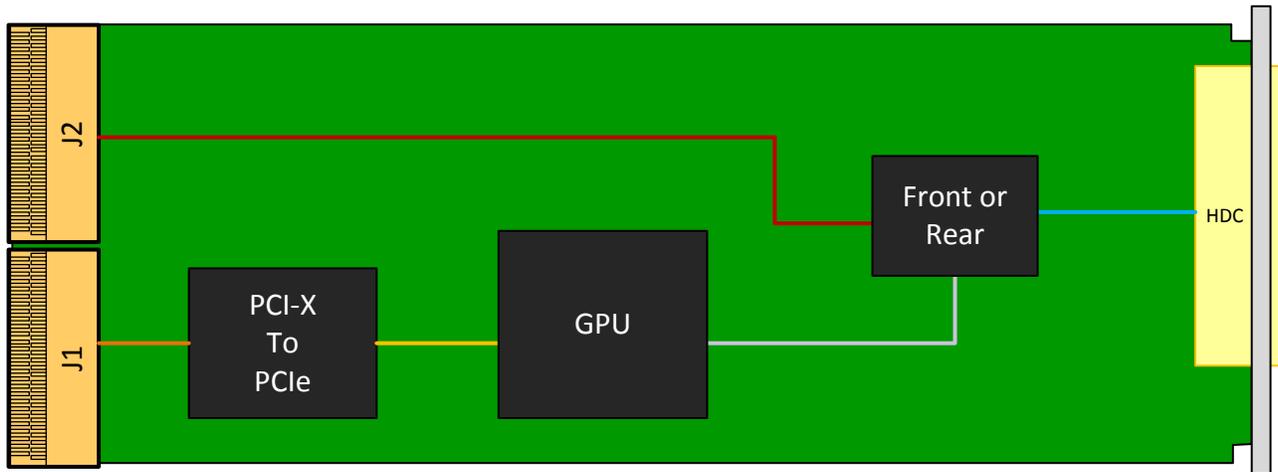
BLOCK DIAGRAM

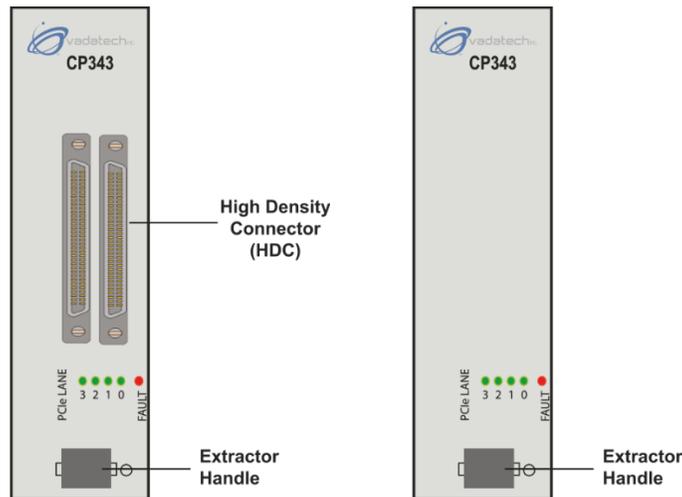Figure 1: Block Diagram

FRONT PANEL

Figure 2a: Front I/O Option

Figure 2b: Rear I/O Option

SPECIFICATIONS

Architecture			
Physical	Dimensions	Width: 3.94" (100.07 mm)	
		Depth 6.37" (161.79 mm)	
		3U cPCI, 6U option available	
Type	cPCI	DVI Adapter	
	Six Ports	Six ports DVI-D (port one is DVI-I) with HDC in the front	
	Video Resolution	Up to 1920x1200 @ 60 Hz	
	Memory	1 GB GDDR-5	
PCI-X	Speed	133 MHz	
Standards			
Compact PCI	Type	cPCI	
Module Management	IPMI	None	
Configuration			
Power	CP341	18 W	
Environmental	Temperature	Operating Temperature: 0° to 65°C (air flow greater than 300 LFM)	
		Storage Temperature: –40° to +90°C	
	Vibration	Operating 9.8 m/s^2, 1G, 5 to 500Hz on each axis	
	Shock	Operating 30G on each axis	
	Relative Humidity	5 to 95 per cent, non-condensing	
Front Panel	Interface Connectors	HDC for video output HDC cable to six standard DVI (cable included)	
	LEDs	PCIe lane good and power fail	
	Mechanical	Hot swap ejector handle	
Software Support	Operating System	Linux, VxWorks, Solaris and Windows	
Other			
MTBF	MIL Handbook 217-F@TBD Hrs		
Certifications	Designed to meet FCC, CE and UL certifications where applicable		
Compliance	RoHS and NEBS		
Standards	VadaTech is certified to both the ISO9001:2000 and AS9100B:2004 standards		
Warranty	Two (2) years		
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ORDERING OPTIONS

CP343 – ABC – D00 – 00J

A = Memory
1 = 1 GB GDDR5

B = Front/Rear I/O
1 = Front I/O
2 = Rear I/O*

C = Front Panel Height
1 = 3U
2 = 6U

D = HDMI Adapter
0 = None
1 = DVI to HDMI

J = Conformal Coating
0 = None
1 = Humiseal 1A33 Polyurethane
2 = Humiseal 1B31 Acrylic

*The rear option comes with a rear transition module

RELATED PRODUCTS

CP341 cPCI
Dual Channel DVI/VGA

ATC107 ATCA Carrier
for cPCI Boards

CP217 24-Port
Layer 2 Switch

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