



## KEY FEATURES

- Based on ATI graphics processor chipset
- Provides six separate high-performance DVI Channels via High Density Connector (HDC)
- PCI-X 32 bit @ 133Mhz
- Compact PCI compliant
- Front/Rear I/O option
- 3U cPCI with option for 6U front panel
- Support industry standard such as 480p, 720p, 1080i, 1080p, etc.
- 1GByte of GDDR5 Memory per Graphic Processor Unit (GPU)
- Optimized for DirectX 11
- RoHS compliant
- OS support for:
  - Linux
  - Windows
  - Solaris
  - VxWorks

The CP343 is VadaTech second generation 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 2560x1600 @ 60Hz, 24 bpp for each independent port.

The CP343 is Compact PCI 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 without NRE (minimum order placement is required).

## SPECIFICATIONS

| Architecture         |   |  |
|----------------------|---|--|
| Physical             | Dimensions  | 3U cPCI, option for 6U front panel   |
|                      |   | Width: 3.94in  |
|                      |   | Depth: 6.37  |
| Type                 | cPCI Video  | DVI Adapter  |
|                      | Six Ports   | Six ports DVI-D (port one is DVI-I) with HDC in the front  |
|                      | Video Resolution  | Screen resolutions up to 2560x1600 @ 60 Hz   |
|                      | Memory  | 1 GB of GDDR5 memory per GPU   |
| Standards            |   |  |
| Compact PCI          | Type  | cPCI   |
| Module Management    | IPMI  | None   |
| PCI-X                | Speed   | 133Mhz   |
| Configuration        |   |  |
| Power                | CP343   | 18W  |
| Environmental        | Temperature   | Operating Temperature: 0° to 65° C (Air flow requirement is to be greater than 300 LFM)<br>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   | HDC to provide the Video output<br>HDC cable to six standard DVI (cable is included)   |
|                      | LEDs  | PCIe lane good and power fail  |
|                      | Mechanical  | Hot Swap Ejector Handle  |
| Software Support     | Operating Systems   | Linux, Windows, Solaris and VxWorks  |
| Other                |   |  |
| MTBF                 | MIL 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   |  |
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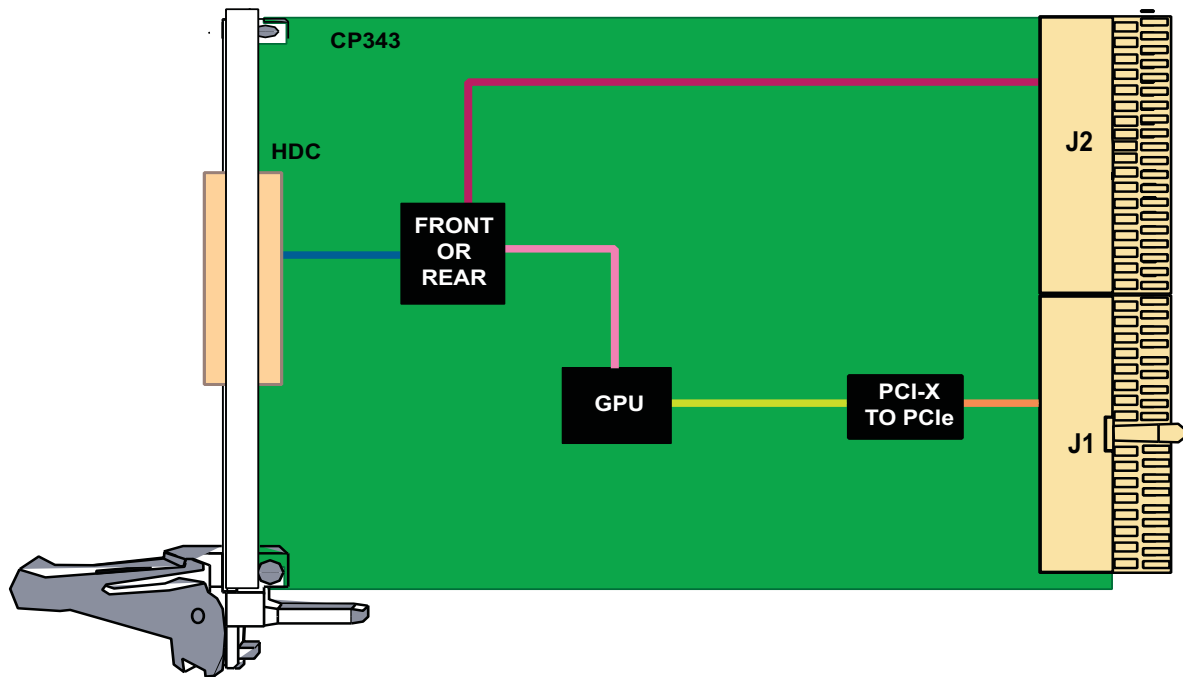
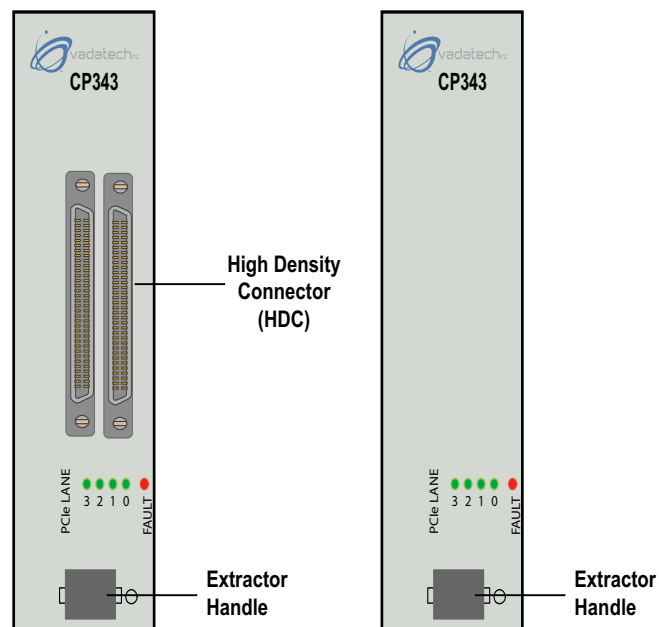


FIGURE 1. CP343 Functional Block Diagram

FIGURE 2. CP343 Front panel options for the front or rear I/O



## ORDERING OPTIONS

CP343 - ABC - 000 - 00J

**A = Memory**

1 = 1GB GDDR5

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

0 = Front

1 = Rear\*

**C = Front panel**

1 = 3U

2 = 6U

**J = Conformal Coating**

0 = None

1 = Humiseal 1A33 Polyurethane

2 = Humiseal 1B31 Acrylic

\*The rear option comes with the rear transition module.



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