

CP344

cPCI 3U Graphic Board with 6 Mini Display Ports



CP344

Key Features

- 3U Compact PCI graphics board
- Based on AMD graphics processor chipset
- Provides 6 Mini Display Ports in 4HP panel size
- Supports industry standard 480p, 720p, and 1080i
- PCI-X 64-bit (or 32-bit) @ 133 MHz
- PICMG 2.0 R 3.0 compliant
- Support for high-resolution and wide-screen displays up to 3840x2400 @ 60 Hz
- 1 GB of GDDR5 Memory
- Optimized for DirectX 11
- OS support for Linux, Windows, and Solaris

Benefits

- Uses high performance graphics processor
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company



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CP344

The CP344 is a second generation VadaTech graphics module designed to meet the high-performance needs of Military, Industrial and Telecom applications. The 3U board is one of the fastest and most advanced, high-performance 2D and 3D graphics processors available for the Compact PCI embedded market.

The CP344 features AMD's graphics processor chip (E6760) which enables dual HD decode of H.264, VC-1, MPEG4 and MPEG2 compressed video streams. The board offers up to 1 GB of GDDR5 memory and supports up to 6 independent displays with resolutions up to 3840x2400 @ 60 Hz, depending on number or ports used. The CP344 is PICMG 2.0 R 3.0 compliant and is available in the 3U size (a 6U panel is available). **The CP344 board is not PCI +5 V signaling compatible.**



Figure 1: CP344

Block Diagram

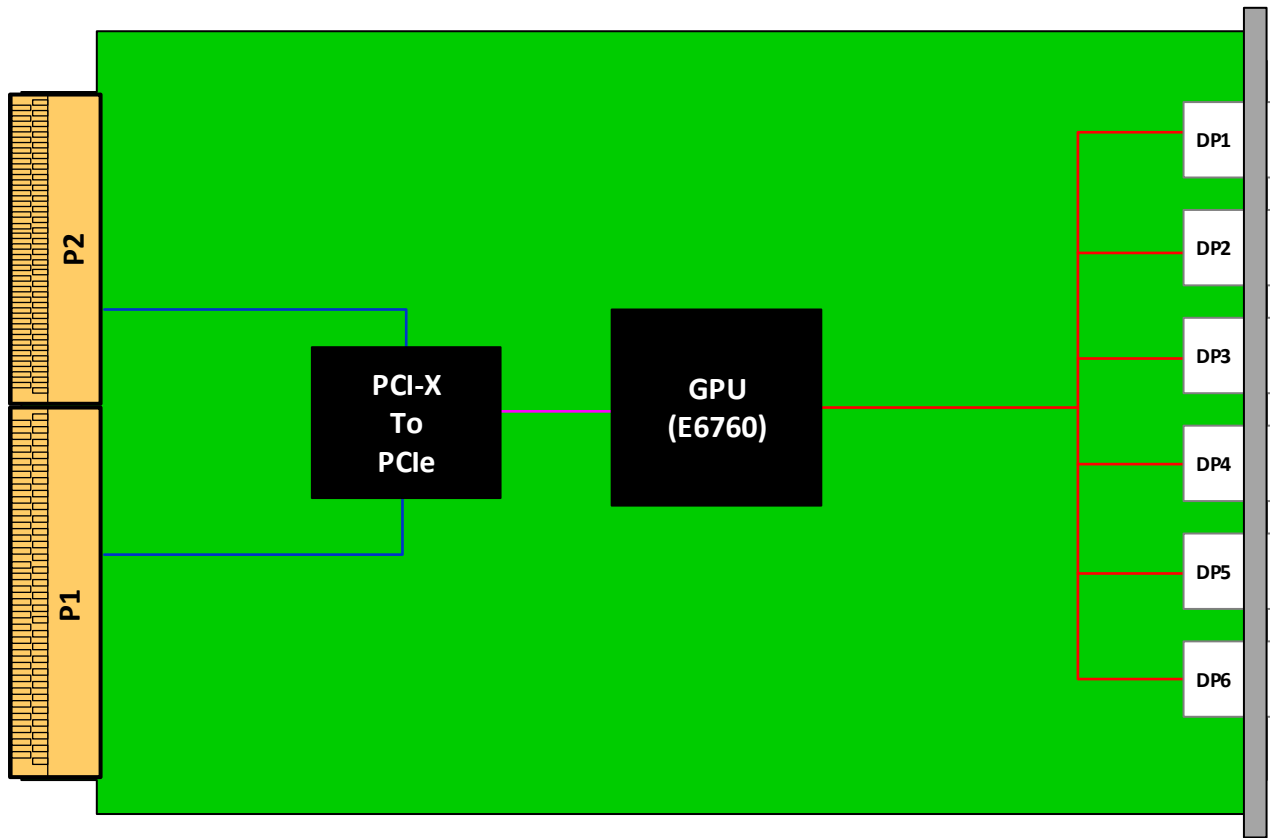


Figure 2: CP344 Functional Block Diagram

Specifications

| Architecture | |
|--------------------------|---|
| Physical | Dimensions 3U cPCI (6U panel option available), 4HP wide (0.8") Width: 3.94" (100.07 mm) Depth 6.37" (161.79 mm) |
| Type | cPCI Graphics board |
| | Ports 6 Mini Display Ports |
| | Video Resolution Up to 3840x2400 @ 60 Hz |
| | Memory 1 GB GDDR-5 |
| PCI-X | Speed 133 MHz |
| Standards | |
| Compact PCI | Type cPCI |
| Module Management | IPMI None |
| Configuration | |
| Power | CP344 ~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 500 Hz on each axis |
| | Shock Operating 30G on each axis |
| | Relative Humidity 5 to 95% non-condensing |
| Front Panel | Interface Connectors Mini Display Port |
| | LEDs PCIe lane good and power fail |
| | Mechanical Hot swap ejector handle |
| Software Support | Operating System Linux, VxWorks, Solaris and Windows |
| 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 |
| Warranty | Two (2) years |

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.

Ordering Options

CP344 – 0BC-000-0HJ

| | | |
|--------------------------|--|---|
| | | |
| B = PCI-X Option | | H = Operating Temperature |
| 1 = 32-bit 2 = 64-bit | | 0 = Commercial 1 = Industrial |
| C = Front Panel | | J = Conformal Coating |
| 1 = 3U 2 = 6U | | 0 = No coating 1 = Humiseal 1A33 Polyurethane 2 = Humiseal 1B31 Acrylic |

Related Products

ATC107



- AdvancedTCA 3.0 Release 2.0 compliant
- Shelf Manager or Node board
- PCI-X @ 133MHz

CP217



- Compact PCI (cPCI) compliant
- Managed Layer two switch
- 24 ports in double slot

CP341



- Based on ATI graphics processor chipset
- Provides two separate high-performance Dual DVI or VGA Channels
- PCI-X 32-bit @ 133 MHz

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