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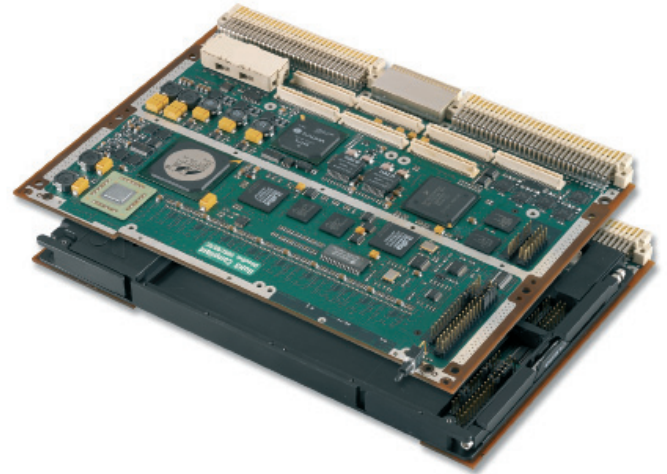
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CP1A

6U CompactPCI PowerPC Single Board Computer

Features

- High performance 6U CPCI processor
- Fully rugged – air/conduction cooled
- Extensive GE Intelligent Platforms software support
- Key features
 - PowerPC 7448
 - Discovery 3 Integrated System Controller
 - DDR SDRAM on 133 MHz main memory bus
 - 2x Gigabit Ethernet ports (PICMG® 2.16 compliant)
 - 6x serial ports
 - 5x USB 2.0 ports
 - 2x PMC sites
 - AFIX daughter cards

The CP1A 6U CompactPCI single board computer (SBC) is the founder member of the PowerPact6 family, building on the success of the established PowerPact3 family of 3U CompactPCI products.

The CP1A is based on the proven designs of the VME SBCs but takes full advantage of the enhanced features of CompactPCI, such as support for hot swap and much higher I/O pin count. An extensive range of I/O coupled with two PMC sites and AFIX (Additional Flexible Interface Xtension) pluggable module make the CP1A the most versatile single slot solution currently in the defense and aerospace market space.

The PowerPC 7448 processor and Discovery 3 Integrated System Controller, combined with industry-leading software support and experience in designing and manufacturing rugged electronics for over four decades, give the CP1A the edge in embedded computing performance.

Additional Flexible Interface Xtensions (AFIX)

For enhanced I/O flexibility the CP1A supports 'plug-on' module, which adds rear I/O functionality. The Additional Flexible Interface Xtension (AFIX) card is a factory fitted option, providing fully rugged flexibility to the CP1A's already extensive I/O feature set.

Standard Feature Set (without AFIX)

- 2x 10/100/1000BaseT Ethernet ports
- Keyboard and Mouse
- 5x USB 2.0 ports
- 17 bits General Purpose I/O from South Bridge (Eight bits capable of generating an interrupt); can be software configured as a parallel port
- 16-bits GPIO from PCI bridge
- Parallel port
- 6x serial ports

Feature set with AFIX1553

- Dual channel, dual redundant MIL-STD-1553B interfaces
- 2x DDC PCI MicroACE
- Each channel offers independently selectable BC, RT, MT modes
- 64K words of RAM (with parity) per channel
- Transformer-coupled / direct-coupled

Feature set with AFIX SG

In addition to the standard feature set, the AFIX SG offers a combination of SCSI and Graphics capabilities.

- 8-bit Ultra SCSI (20 MBs/sec) or 16-bit Ultra SCSI (40 MBs/sec)
- RGB Analog Graphics (Silicon Motion SM722 Graphics Accelerator, with integral 8 MB memory. Resolutions up to 1280x1024)

(Note: option with 16-bit Ultra SCSI results in reduced GPIO capability from host card - eight lines available)

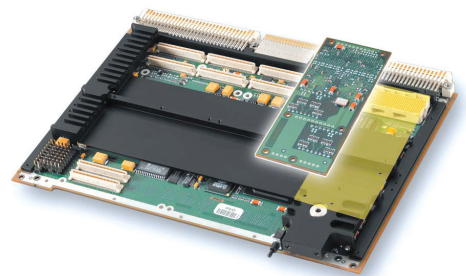


Figure 3: CP1A Base Board and AFIX Card





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