

# Technical Data

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## PI-11008 Instrument Chassis

### Features:

- SBC plus 7 Instrument Slots
- Holds 6U Cards
- 360 Watt Power Supply
- Supports 3.3 V or 5.1 V cPCI Boards
- Supports PI Instrument Cards
- Pentium Class Processor up to 333 MHz
- Optional dual-CPU up to 2 x 800 MHz PIII
- Up to 512 MB EDO or ECC DRAM or 2 GB PC100 SDRAM (dual-CPU only)
- Up to 144 MB of on-board flash memory
- Rack-mountable

### Applications:

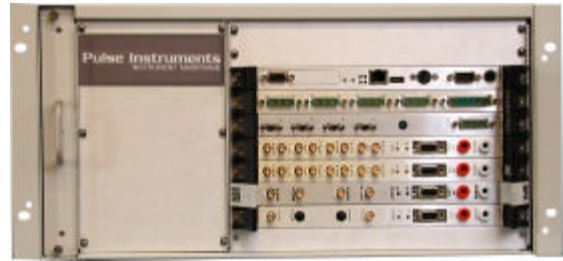
- Chassis for Small Test System
- Chassis for Single Instrument Type Support
- Chassis for PI Instrument Cards

### Description:

The PI-11008 Instrument Chassis was designed to accommodate the power and noise requirements of some of Pulse Instruments analog instrument cards. These instrument cards, such as the PI-41400, PI-41701 and others supply signal outputs that require more current from the -12 V supply than available in a standard chassis. Therefore this chassis has a larger -12 V power supply that provides 5.0 Amps.

The standard CompactPCI® chassis is typically built for instrumentation applications where electrical noise is not a serious consideration. With our test equipment electrical noise is an important consideration in the overall performance of the equipment. This chassis has been modified to minimize the electrical noise that is injected into the instruments' analog circuitry and therefore minimizes the effect on the output performance.

The instrument has an 8-slot cPCI backplane that is compliant with PICMG 2.1 R1.0 specification. One slot is used for the single-board-computer with the remaining 7 slots used for instrument cards. These cards can be of any combination provided by Pulse Instruments or other vendors of CompactPCI® instrument cards.



**PI-11008 Instrument Chassis**

The SBC is a Pentium Class processor utilizing the PC industry standard DIMM socket for DRAM. The unit comes with 128 MB of Extended Data Out (EDO) DRAM for high performance. As an option the unit can be supplied with Error Correcting (ECC) DRAM for improved reliability and data integrity. The memory total capacity is 512 MB. The SBC comes with up to 4 Mbits of on board flash memory for system BIOS. Optionally the flash memory can be upgraded to 144 MB. The processor contains internal Level 1 cache memory with 512 KB of Level 2 cache memory provided on-board the unit.

The SBC is powered by an AMD K6-2 or by dual Pentium III processors. The processor provides the standard on-board peripherals such as keyboard and mouse ports, timers, real-time clock, serial (16550) and parallel ports. In addition it also provides Enhanced IDE controllers, a floppy controller, Universal Serial Bus (USB) ports and a 10/100 Ethernet.

System power-on reset and Non Maskable Interrupt reset switches are accessible from the front panel. LED's are provided on the front panel for EIDE activities, Ethernet negotiation/speed status and system power status.

The SBC supports Windows NT.



**Pulse Instruments**

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## Specifications:

### PI-11008 Chassis

- Eight slots, one for SBC and seven instrument slots
- Power Supply, 360 Watts
  - 5 Volts @ 30 A
  - 3.3 Volts @ 14 A
  - 12 Volts @ 10 A
  - 12 Volts @ 5 A
- Floppy and CD-ROM or Zip Drive
- IEEE-1101.10 Compliant
- Removable fan tray; 12 V DC Fans
- RFI/EMI Shielded, designed to meet FCC Part 15 Class A
- UL/CSA/CE Qualified
- Physical Size: 8.75" x 17.375" x 11.625", (214 mm x 441 mm x 295 mm)

### Single Board Computer (single CPU model)

- PICMG® 2.1 Hot Swap Specification compatible
- AMD K6-2 CPU at 333 MHz
- Up to 512 MB EDO or ECC DRAM
- VGA controller with 2 MB VRAM
- Interrupt and Reset buttons
- One Universal Serial Bus (USB) port
- One (16550) serial port
- PS/2 mouse and keyboard ports
- On-board 10/100BASE-T Fast Ethernet port
- Windows NT, pre-installed

### Single Board Computer (dual CPU model)

- PICMG® 2.1 Hot Swap Specification compatible
- Two Pentium III CPUs at 800 MHz
- Up to 2 GB SDRAM (PC100) in 4 DIMM slots
- AGP video controller with 2 MB video memory
- Interrupt and Reset buttons
- Two Universal Serial Bus (USB)
- Two (16550) serial ports and one bi-directional parallel port
- PS/2 mouse and keyboard ports
- Dual on-board 10/100BASE-T Fast Ethernet ports
- Optional rear I/O transition adapter interface provides all connectors at rear of chassis
- Windows NT, pre-installed

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