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Find the *Diamond Systems PR-Z32-E-ST* at our website: *Click HERE*

PROMETHEUS

DIAMOND SYSTEMS CORPORATION

ZFX86 CPU, LOW POWER, BUILT-IN ETHERNET AND DATA ACQUISITION



- Low power 100MHz 486-class CPU with 32MB RAM
- Full featured, including 10/100 Ethernet, 4 serial, 2 USB, floppy, IDE and FlashDisk support
- Optional data acquisition featuring 16 16-bit A/D, 4 12-bit D/A, 24 DIO and two counter / timers
- Extremely rugged, with fanless operation from -40°C to +85°C

DESCRIPTION

The space-saving Prometheus combines a full-featured 486 CPU with an intelligent, professionalquality data acquisition circuit including analog I/O, digital I/O, and counter/timers, all on one board. Its low power consumption of 5 watts eliminates the need for a heat sink or fan and enables guaranteed operation over the range of -40 to +85°C. Prometheus has been successfully used in applications including satellites, military combat vehicles, and process control.

Built-in I/O includes a 10/100Mbps Ethernet port, 2 USB ports, 4 RS-232 ports with serial console capability, PS/2 keyboard/mouse, IDE port, parallel port, and floppy port. Prometheus also includes a real-time clock with backup battery and a programmable watchdog timer with both hardware and software retrigger capability.

For DOS applications, it includes a built-in flash file system that lets you store DOS operating system and application files right in the on-board flash memory without requiring any external storage. This saves time, reduces cost, and increases the ruggedness of your system.

CPU SPECIFICATIONS

Processor	ZFMicro Devices ZFx86
Memory	32MB soldered
Display	None
USB	2 USB 1.1
Serial	4 RS232
Networking	10/100 Ethernet
Mass Storage	IDE, FlashDisk
Keybd / Mouse	PS/2
Dimensions	3.55"W x 3.775"H
Input Power	+5VDC±10%
Operating temp	-40°C to +85°C
Weight	3.0oz / 85g
Analog Inputs	16, 16-bit A/D
Max Sample Rate	100KHz
Input Modes	single ended, differential
Input ranges	±10V, ±5V, ±2.5V, ±1.25V , 0-10V, 0-5V, 0-2.5V, 0-1.25V,
Analog Outputs	4, 12-bit D/A
Output ranges	±10V, 0-10V
Digital I/O	24 lines, TTL
Direction	Programmable
Counter / timers	1 24-bit and 1 16-bit

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ORDERING INFORMATION

Part No.	Description
PR-Z32-EA-ST	Prometheus CPU with Ethernet and Data Acquisition, 32MB RAM
PR-Z32-E-ST	Prometheus CPU with Ethernet, 32MB RAM
PR-Z32-LC-ST	Prometheus CPU, 16MB RAM
PR-Z32-EA-DK	PR-Z32-EA-ST Development Kit
PR-Z32-E-DK	PR-Z32-E-ST Development Kit
C-PRZ-Kit	Prometheus Cable Kit

Prometheus is available in three versions:

EA-Full-featured model, with 10/100Mbps Ethernet and data acquisition

E-Includes Ethernet, no data acquisition

LC-No Ethernet or data acquisition; 16MB RAM; Extra low power consumption of 2 watts

FOR MORE INFORMATION

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