

Prometheus

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



features

- 2-in-1 design reduces cost, saves space
- ZFx86 processor - 486-DX2, 100MHz 32MB RAM
- On-board flash file system for DOS
- 10/100Mbps Ethernet
- 4 serial, 2 USB, 1 floppy port
- IDE and floppy ports
- Watchdog timer and real-time clock
- IrDA infrared port
- Solid-state IDE flashdisk compatibility
- Built-in data acquisition with:
 - 16-channel 16-bit A/D
 - 4-channel 12-bit D/A
 - 24 digital I/O
 - 2 counter/timers
 - 40 to +85°C operation

specifications

- Processor:** ZFMicro Devices ZFx86
 - Processor Clock:** 100 MHz
 - DRAM Memory:** EA, E: 32 MB; LC: 16MB
 - Flash Memory:** 2 MB
 - System I/O:** 4 serial ports, 115 kbps max. 1 parallel port, 2 USB ports
 - Serial protocols:** RS-232
 - Serial console Selectable:** COM1 /COM2
 - Ethernet:** -E and -EA models only 10/100BaseT 100Mbps max.
 - Desktop Ports:** PS/2 Keyboard and Mouse
 - IDE expansion:** Flash disk module – 32-512MB max 44-pin connector for external drives
 - Watchdog timer:** Programmable 0-5 sec
 - Analog Inputs:** 16, 16-bit resolution (1/65536)
 - Max A/D rate:** 100 kHz
 - Input modes:** Unipolar, bipolar, single-ended, differential
 - Input ranges:** 0-10V, 0-5V, 0-2.5V, 0-1.25V ±10V, ±5V, ±2.5V, ±1.25V
 - Accuracy:** ±3LSB
 - Analog outputs:** 4, 12-bit resolution (1/4096)
 - Settling time:** 13µS to .01%
 - Output ranges:** 0-5, ±5V
 - Output current:** ±1.25mA max per channel
 - Digital I/O:** 24 lines, TTL compatible
 - Direction:** Programmable in groups of 8 bits
 - Output current:** Logic 0: 12µA Logic 1: -8µA
 - Counter/timers:** 1 24-bit, 1 16-bit
 - Input clocks:** 10MHz, 1MHz, 100KHz, external
- GENERAL**
- Dimensions:** 3.550" x 3.775"
 - Operating temp.:** -40°C to +85°C
 - Power EA:** +5V/1A (5W typical)
 - Requirements E:** +5V/0.6A (3W typical)
 - LC:** +5V/0.4A (2W typical)
 - Weight:** 3.0oz / 85g

Ordering Information



this product is
manufactured by:



Part Number	Description
PR-Z32-EA-ST	Prometheus PC/104 CPU, With Ethernet & Data Acquisition
PR-Z32-E-ST	Prometheus PC/104 CPU, With Ethernet
PR-Z32-LC-ST	Prometheus PC/104 CPU, Low-Cost Model
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

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