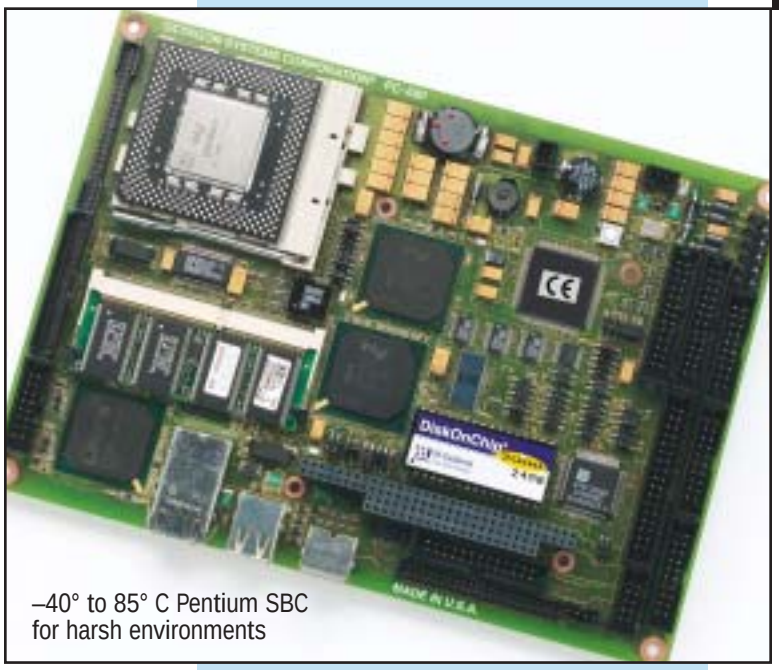
PC–680

PENTIUM® SBC OFFERS INDUSTRIAL ETHERNET®



–40° to 85° C Pentium SBC
for harsh environments

Description

The PC–680 is a Pentium SBC packed with industrial grade I/O. The low–power Intel Mobile Pentium processor operates in high temperature environments with little or no ventilation. The high performance USB, EIDE, video, and 100 Base–T Ethernet use the PCI local bus. I/O can be expanded through the PC/104 port.

The PC–680 is ideal for transportation, automation, medical and other applications where high reliability and/or harsh environments are present. It supports most LCD panels. Drivers for a number of flat panels are available from Octagon.

The 166 MHz version does not require a fan. The card can also be ordered depopulated and with other processors for cost–effective OEM solutions.

Features

CPU: .....Intel Mobile Pentium, 166 MHz & 266 MHz, Chipset: Intel 82C439TX

DRAM: .....Supports 128 MB, SDRAM

Cache:.....512K secondary cache

Flash .....4 or 8 MB, on–card, 28 MB DiskOnChip support

Software .....DOS 7.1, flash file system, diagnostics & utilities installed

SRAM .....512K, battery–backed supported

Video.....C&T 69000 XVGA controller, 2 MB memory, 32–bit flat panel interface, graphic accelerator, CRT support, PCI Bus interface

Ethernet®: .....10 Base–T/100 Base–TX, auto–negotiating, half/full duplex, PCI Bus interface

Serial: .....Six serial ports, 16C550 compatible, RS–232/422/485, ESD protection

USB: .....2 ports w/UHCI support

Parallel: .....Bi–directional, ECP/EPP modes

EIDE: .....Two hard disks, SanDisk, CD–ROM drives, PCI Bus interface

Digital I/O:.....32 lines, bit programmable, 15 mA drive

Speaker: .....Standard PC speaker port

Precision RTC: .....Accurate to 2 min./year

Keyboard: .....AT keyboard support with PS–2 connector

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A Pentium SBC packed with industrial grade I/O:

The low–power Intel Mobile Pentium processor operates in high temperature environments with little or no ventilation. The high performance video and 100 Base–T Ethernet operate from the PCI local bus. The I/O can be expanded through the PC/104 port.

CPU monitor:.....CPU temperature monitor can be used for power management
Floppy: .....Supports two floppy drives with all standard densities
Expansion:.....PC/104 connector, 16–bit
Compatibility: .....Windows NT/98/CE ®, QNX® and Linux®
Y2K: .....Compliant BIOS
Watchdog timer: ....Programmable to 0.5 to 64 seconds

TECHNICAL SPECIFICATIONS:

Power:.....Low power, 5V only operation
Environment:.....–40° to 85° C: 166 MHz Mobil Pentium, operating range, no fan. –40° to 70° C: 266 MHz Mobile Pentium, operating range, w/fan.
Shock:.....40g
Vibration:.....6g, random, 10–500 Hz
Size: .....5.75" x 8" (EBX outline)

Ordering Information

Order #5455.....PC–680, with 166 MHz Mobile Pentium, 4 MB flash, 0K SDRAM and 512K secondary cache, manual and utilities on CD
Order #5877.....PC–680, with 266 MHz Mobile Pentium, 4 MB flash, 0K SDRAM and 512K secondary cache, manual and utilities on CD

ACCESSORIES

Order #5565.....32 MB SDRAM
Order #5591.....64 MB SDRAM
Order #4866.....VTC–20F, serial cable, 20–pin female, 18–in.
Order #4808.....PCA–36, Centronics printer cable, 36–in.
Order #4865.....VGA–12, video cable, 15–pin, 12–in.
Order #4080.....3.5–in. HD adapter cable
Order #3186.....AT battery

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