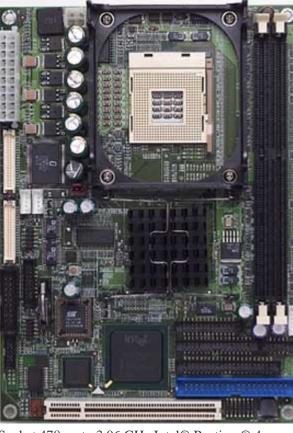


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## PCM-9580



Socket 478 up to 3.06 GHz Intel® Pentium® 4

Supports Gigabit Ethernet (PCM-9580FG)

Supports Embedded USB, 4 USB 2.0 ports

Supports 2-channel 48-bit LVDS interface

Optional Audio Interface

The PCM-9580 is a Socket 478 Pentium® IV single board computer (SBC) with Gigabit Ethernet, USB 2.0, 2-channel 48-bit LVDS, audio controller, a 4X AGP SVGA controller, one PCI slot, and an optional TV-out function. It supports Pentium® IV up to 3.06 GHz. The PCM-9580's design is based on the EBX form factor and provides support for PCI module expansion. The EBX form factor also provides a convenient connector layout for easy assembly, more efficient cable connections, and better overall embedded system integration. This compact unit (only 5.75" x 8") offers all the functions of a single board industrial computer, but still fits in the space of a 5.25" CD-ROM drive. On-board features include: four serial ports, one multi-mode parallel (ECP/EPP/SPP) port, four USB (Universal Serial Bus) 1.1/2.0 ports, an optional floppy drive controller, and a PS/2 keyboard/mouse interface. The built-in high-speed PCI IDE controller supports both PIO and UDMA/100 bus master modes. Up to four IDE devices can be connected, including large hard disks, CD-ROM drives, and tape backup drives. The PCM-9580 features power management to minimize power consumption. It complies with the "Green Function" standard and supports Doze, Standby and Suspend modes. In addition, the board's watchdog timer can automatically reset the system or generate an interrupt if the system stops due to a program bug or EMI. Highly Integrated Multimedia SBC The PCM-9580 is a highly integrated multimedia SBC that combines audio, video, and network functions on a single computer board the size of a 5.25" CD-ROM drive. It provides an AC-97 interface and supports Line-in, Line-out, and MIC-in via optional PCM-232 audio module, and up to 1760 x 1200 resolution at 16.8 million colors with an 8 to 64 MB frame buffer (shared with system memory). Major on-board devices adopt PCI technology, to achieve outstanding computing performance when used with Intel® Pentium® IV processors. The PCM-9580 also supports optional TV-out for NTSC/PAL multimedia applications.

SBC Type: EOI Single Board Computers Processor Real Time Clock: Processor Misc.: L2 Cache: 256/512 KB on Celeron®/Pentium® 4 Processor

Sock 478 for Intel® Celeron®/ Pentium® 4 (Northwood)/ Pentium® 4-M

Chipset: System Chipset Intel® 845GV (845GV GMCH+ 82801 ICH4) 400/533 MHz FSB

Memory Bios/ boodloader:

AWARD 512 KB Flash BIOS

Primary Flash:

CompactFlash<sup>TM</sup> card Type I/II

Primary I/O

1x FDD

1x EIDE (UDMA 100) supporting 2x IDE devices

Audio:

USB:

ICH4 support AC97 2.0 compliant

4x USB 1.1/2.0 compliant

Serial Ports:

4x RS-232

Watchdog:

Primary I/O Misc.:

Parallel Port: 1 Parallel Port supports SPP/EPP/ECP mode

Optional PCM231A: Line-in/Line-out/Mic-in support

Display

Chipset: Intel 845GV +Chrontel CH7017

Memory Size: 8 to 64 MB frame buffer using system memory

Resolution

CRT Mode: Max. 1760 x 1200 @ 32 bpp at 85 Hz

LVDS: Supports 2 Channel (2 x 24 bit) LVDS interface

TV-Out: Supports both NTSC/PAL, S-video and Composite Video

Ethernet

Chipset:

Intel® 82551ER (PCM-9580F)

Intel® 82540EM (PCM-9580FG)

<ul> <li>IEEE 802.3z/ab 1000 BASE-T Gigabit Ethernet compatible (PCM-9580FG)</li> </ul>
Secondary I/O
Secondary I/O
Keypad:
PS/2:
Analog on A.D.
D/A:
Dimensions Dimensions.
$5.7 \times 8$ in
Weight:
$0.85~\mathrm{kg}$
Form Factor:
Full EBX
Power Requirements Max Boot Current.
5.2 A
Power Misc.:
Battery: Lithium 3 V/196 mAH
Power Supply Voltage: $+5 \text{ V} \pm 5\%$ , $+12 \text{ V} \pm 5\%$ , $+3.3 \text{ V} \pm 5\%$ (ATX 2.03 or ATX +12V 1.3)
Typical Power Requirement: 0.5A @ +5 V, 4.4A @ +12 V, 2.7A @ +3.3 V (with 256 MB DRAM, Pentium 4 3.06 GHz)
Environmental Low Operating Temperature: 0 C High Operating Temperature:
60 C
Upper Operating Humidity: 90%
90%
Pricing PC1v1-7J60F
Socket 478 SBC W/ VGA/ LCD/ LVDS/ LAN/ USB 2.0/ Audio
\$0.00
Parent Product:
PCM-9580FG
Socket 478 SBC W/ VGA/ LCD/ LVDS/ GB LAN/ USB 2.0/ Audio
\$0.00
Parent Product:
Cables & Adapters:

Interface:

○ IEEE 802.3u 100 BASE-T Fast Ethernet comatible (PCM-9580F)

CAB-40-001-1 USB 2 port cable w/ mounting bracket \$11.00

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