

PCM-9581



Embedded Celeron 600 MHz or Pentium® M @ 1.1 GHz, 1.6 GHz optional

Lower Cost Socketed SKt479w/855GME version available

Fanless Celeron Operation

High Performance, Low Power

Supports Gigabit Ethernet (PCM-9581FG)

Supports Embedded USB, 4 USB 2.0 ports

Supports up to 36-bit LVDS interface

Support ECC DDR Memory

AC97 3D surround stereo sound

PCM-9581 is centered on a powerful Intel® Pentium® M or Celeron® M processor with Award® BIOS that supports enhanced Intel “SpeedStep” technology and uses Intel’s 855GME and ICH4 I/O chipset. These chipsets are specifically for embedded computing and provide an optimized on-board integrated graphics solution. “SpeedStep” technology intelligently focuses system power where the CPU needs it and automatically regulates power usage to preserve battery life. The PCM-9581'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.Highly Integrated Multimedia SBCThe PCM-9581 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 3048 x 1536 resolution. The PCM-9581 also supports optional TV-out for NTSC/PAL multimedia applications.

Specifications

Single Board Computers

Processor

Embedded Intel Pentium M Processor

Clock Speed:

1.1 GHz

Real Time Clock:

Processor Misc.:

Optional Processor : Embedded Intel Pentium M Processor 1.6 GHz w/64KB primary cache memory

L2 Cache: 1 MB on Pentium M processor

Chipset: System Chipset Intel 855GME GMCH/ICH4 Chipset 400MHz FSB

Memory

BIOS/Bootloader:

AWARD 512 KB Flash BIOS

Primary Flash:

CompactFlash™ card Type I/II

Primary I/O

GPIO:

8x GPIO

Disk Interface:

FDD

1x EIDE (Ultra DMA 100)

Audio:

ICH4 AC97 3D Line-in/Line-out/Mic-in

USB:

4x USB 1.1/2.0 compliant

Serial Ports:

3x RS-232

1x RS-232/422/485

Watchdog:

Primary I/O Misc.:

IrDA: 115 Kbps,IrDA 1.1 Compliant

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

Ethernet

Chipset:

- Intel® 82551ER 10/100 Base-T (PCM-9581F)
- Optional Intel® Gigabit 82551QM/82540EM (PCM-9581FG)

Interface:

- IEEE 802.3u 100 BASE-T Fast Ethernet comatible (PCM-9581F)
- IEEE 802.3z/ab 1000 BASE-T Gigabit Ethernet compatible (PCM-9581FG)

Display

Chipset: Intel 855GME,Supports a single 1.5 V Accelerated Graphics Port Interface

Memory Size: Optimized Shared Memory Architecture,supports 1MB/8 MB frame buffer using system memory

Resolution

- CRT Mode: pixel resolution up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz
- LCD Mode: Dual channel LVDS panel support up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz

LVDS: Supports 2 Channel 36-bit (optionally up to 48-bit) LVDS interface

TV-Out: Supports both NTSC/PAL, S-video and Composite Video (requires optional cable)

Secondary I/O

Keypad:

PS/2:

Analog on A/D.

D/A:

Dimensions

5.7 × 8 in

Weight:

0.85 oz

Form Factor:

Full EBX

Power Requirements

5 V

Typical Current:

3.8 mA

Typical Voltage:

5 V

Power Misc.:

Power Supply Voltage: ATX,with Vcore 2 phase, +5 V power only can work

Battery: Lithium 3 V/196 mAH

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Pricing
PCM-9581F-0

SKT479W/855GME SBC W/ VGA/ LCD/ LVDS/ LAN/ USB 2.0/ Audio

\$0.00

Parent Product:

PCM-9581FG-0

SKT479W/855GME SBC W/ VGA/ LCD/ LVDS/ GIG LAN/ USB 2.0/ Audio

\$0.00

Parent Product:

PCM-9581F-M

Embedded Celeron 600MHZ 855GME SBC W/ VGA/ LCD/ LVDS/ LAN/ USB 2.0/ Audio

\$0.00

Parent Product:

PCM-9581F-S4

LV Pentium M SBC W/ 1.4G CPU VGA/ LVDS/ LAN/ USB 2.0/ Audio

\$0.00

Parent Product:

Cables & Adapters:

CAB-40-001-1

USB 2 port cable w/ mounting bracket

\$11.00

Displays:

1703050306

TV-OUT cable

\$10.00

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