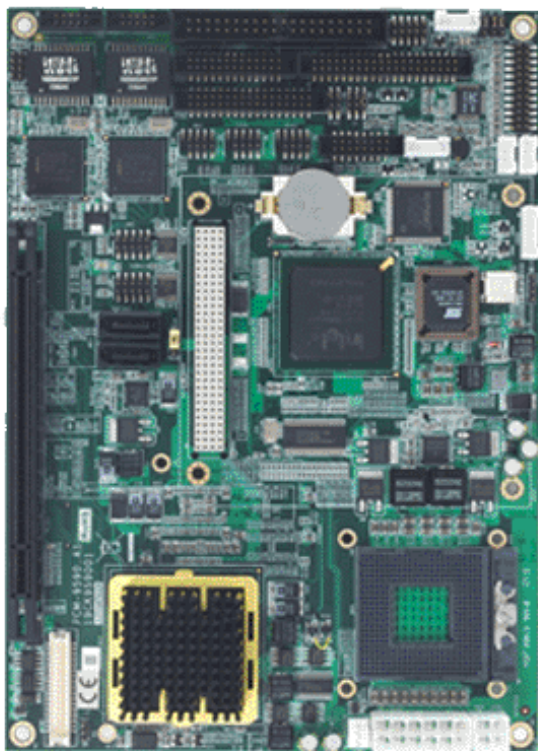


PCM-9590



Embedded Intel® Core Duo Fanless Processor

Up to 2 GB DDR2 SODIMM

EBX form factor standard with support for PCI-104

Mini-PCI and PCI-Express expansion

Dual 10/100/1000Base-T Ethernet

6 USB 2.0 Ports

4 Serial Ports

2 channel 36-bit LVDS interface with Dual Independent display

The PCM-9590 is an EBX Single Board Computer available with a embedded Intel Core Duo CPU on board or a socket 479 version excepting a Core 2 Duo processor. This chipset is ideal for embedded computing and provide an optimized on-board integrated graphics processor. The PCM-9590's design is based on the EBX form factor and provides support for PCI-104, Mini PCI interface, and one PCI-E X16 slot. The EBX form factor also provides convenient connector layout for easy assembly, more efficient cable connections, and better overall embedded system integration. This compact unit (only 8" x 5.75") offers all the functions of a rack type industrial computer, but still fits in the space of a CD-ROM drive. The PCM-9590, in conjunction with Intel 945 GME and ICH7M chipsets, supports processors clocked up to 2.2 GHz, has six USB 2.0 compatible ports, two Gig Ethernet ports, two SATAII (300 MB/s) and four COM ports. In addition, this SBC provides 2 channel, 36-bit LVDS supporting dual independent display (36-bit LVDS + VGA) and can accommodate up to 2GB of DDR2 SODIMM RAM memory (support FSB 533/667 MHz). **Flash Disk, Memory and Hard Disk not included.**

Specifications
SBC type.

Single Board Computers > 1 GHz

Processor

Onboard Core Duo 1.2 GHz/uFCPGA2 (479 pin) Socket

Clock Speed:

1.66 GHz

Real Time Clock:

Processor Misc.:

Second Cache: Depends on CPU from 512 KB to 4 MB

Chipset: Intel 945 GM GMCH/ICH7M Chipset

Memory

BIOS/Bootloader:

AWARD® 4Mbit Flash BIOS

Primary I/O

GPIO.

1x 16 General Purpose I/O

Disk Interface:

1x EIDE (UDMA 100) supporting 2 IDE devices

Video Out:

Intel 945G Dual Display CRT/LCD up to 32 MB shared

Audio:

Realtek ALC888 HD codec with AC97 Line-in/Line-out/Mic-in

Ethernet:

2x Intel 82573L 10/100/1000Base-T with IEEE 802.3u/EEE802.3ab interface

USB:

6x USB 2.0

Serial Ports:

3x RS-232

1x RS-232/422/485

1x Parallel SPP/EPP/ECP

Watchdog:

Primary I/O Misc.:

Serial ATA: 2x SATA 300

Secondary I/O

GPIO.

Keypad:

PS/2:

Analog on

A/D.

D/A:

Dimensions

Dimensions.

5.75 × 8 in

Weight:

345 g

Form Factor:

Full EBX

Power Requirements

Power Misc.:

Power Management: APM1.2, ACPI support

Voltage requirement with ATX Power:

- +5 V DC +/- 5%
- +5 V DC Standby +/- 5%
- +12 V DC (For PCI Card, FAN power, and LVDS inverter power, CPU core power)

Voltage requirement with AT Power:

- +5 V DC +/- 5%+12
- V DC (For PCI Card, FAN power, and LVDS inverter power, CPU core power)

Environmental
Low Operating Temperature:
0 C

High Operating Temperature:
60 C

Upper Operating Humidity:
90%

Pricing
PCM-9590FG-00

SKT 479 W/ DUAL GIG LAN/Single LVDS

\$426.00

Parent Product:

PCM-9590FG-S2

DUAL CORE 1.2GHZ W/ DUAL GIG LAN/LVDS

\$945.00

Parent Product:

PCM-9590FG-S6

DUAL CORE 1.66GHZ W/ DUAL GIG LAN/LVDS

\$957.00

Parent Product:

Wiring Kits:

PCM-10586-9590E

Wiring Kit for the PCM-9590

\$55.00

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