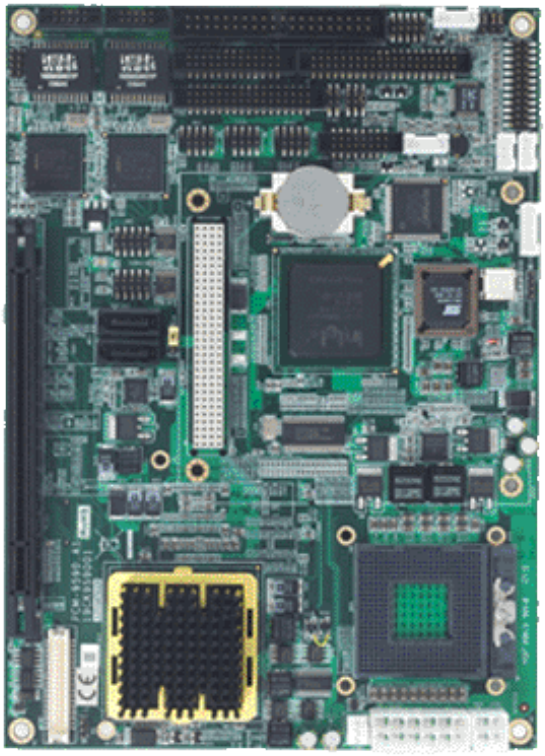
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PCM-9590



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 X 16 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

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

LPT Port:
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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