

PCM-4896



Onboard NS Geode™ GX-1 300 MHz BGA CPU

C&T 69000 LCD controller supports 36-bit TFT Panels (NS CX5530A LCD controller supports 18-bit TFT Panels for PCM-4896L)

10/100Base-Tx Fast Ethernet

Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio

Supports DiskOnChip® 2000 up to 1GB

4 TTL digital input bits & 4 TTL digital output bits

The PCM-4896 is an all-in-one multimedia NS Geode™ GX1 MMX™ processor based single board computer (SBC) with an integrated audio controller, a PCI Flat Panel controller, a PCI 100Base-T Ethernet interface, and one PCI expansion slot. With true Pentium® MMX™ capability, the PCM-4896 achieves outstanding performance that surpasses other SBC in its class. In addition, the onboard SSD interface supports M-systems DiskOnChip® 2000 series, memory capacity from 2 MB to 1 GB. This compact (only 5.75" x 8") unit offers all the functions of a single board industrial computer, but still fits in the space of a CD-ROM drive. On-board features include four serial ports (three RS-232, one RS-232/ 422/485), one multi-mode parallel (ECP/EPP/SPP) port, a connector for two USB (Universal Serial Bus) ports, a floppy drive controller, and a keyboard/PS/2 mouse interface. The built-in high speed PCI IDE controller supports Ultra DMA/33 mode. Up to two IDE devices can be connected, including large hard disks, CD-ROM drives, and tape backup drives, etc. The PCM-4896 also features power management to minimize power consumption. It complies with the APM standard and supports three types of power saving features: doze, standby, and suspend mode. In addition, the board's watchdog timer can be programed to reset the system or generate an interrupt in case the system stops due to a program bug or EMI. Highly Integrated Multimedia SBC The PCM-4896 is a highly integrated multimedia SBC that combines audio, video, and network functions on a CD-ROM drive size single computer board. It provides, 16-bit full-duplex, integrated 3D audio and up to 1024 x 768 resolution @ 64K colors with on-chip 2MB SDRAM display memory. Major onboard devices utilize PCI technology to achieve outstanding computing performance.

Specifications

SBC Type:
ECR Single Board Computers
Processor
Processor.

Onboard NS Geode GX1

Clock Speed:

300 MHz

Real Time Clock:

Processor Misc.:

Chipset: NS CS5530A

Cache: Processor build-in 16KB Level-1 write-back cache

Primary I/O
Disk interface.

1x FDD

2x EIDE (Ultra DMA33)

USB:

4x USB

Serial Ports:

1x Parallel SPP/EPP/ECP

3x RS-232

1x RS-232/422/485

Watchdog:

Primary I/O Misc.:

I/O Chipset: National NS97317/ITE IT8661F. Fully 16-bit I/O decoded

IR interface: Supports one IrDA Tx/Rx Header

DMA: 7 DMA channels

Interrupt: 15 interrupt levels

Secondary I/O
LPT Port.

Keypad:

PS/2:

Analog on
A/D.

D/A:

Dimensions
Dimensions.

8 × 5.75 in

Weight:

0.5 kg

Form Factor:

Full EBX

Power Requirements
Voltage.

5 V

Typical Current:

1.5 A

Typical Voltage:

5 V

Power Misc.:

Battery: Lithium battery for data retention of up to 10 years

Power management Supports: ATX power supply. Supports PC97, LAN wake up, and modem ring-in functions. I/O peripheral devices support power saving and doze/standby modes. APM 1.2 compliant

Environmental
Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Pricing
PCM-4896-L-C

GX1-300 SBC W/ NS CX5530 Video (Discontinued)

\$0.00

Parent Product:

PCM-4896-C

GX1-300 SBC W/ C&T 69000 Video (Discontinued)

\$0.00

Wiring Kits:

PCM-10489-5

Wiring kit for PCM-4896

\$0.00

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