PCM-4898

NS Geode Series   Media PC

with LCD, Audio, TV Out, LAN, 4 COMs, LVDs, & 4 D I/O

Low Cost

❶ TV-Output connector (NTSC/PAL)
❷ 18-bit TFT Flat Panel connector
❸ LVDS Connector
❹ 168-pin DIMM socket
❺ Digital I/O connecotor
❻ I/O chipset NS97317

❼ 10/100Base-T Ethernet connector
❽ Dual USB Connectors
❾ KB connector
❿ PS/2 Mouse connector
⓫ CRT Connector
⓬ Audio/MIC Signal Input/Output connector
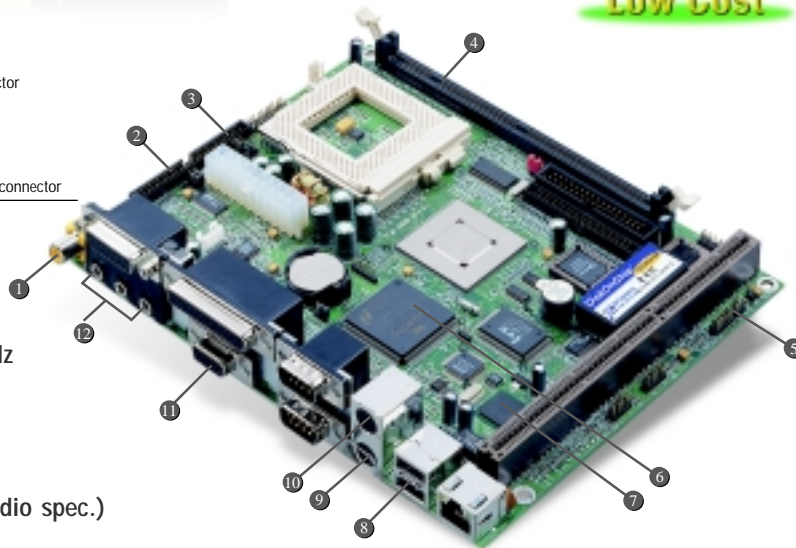
Features

- **Supports NS Geode Series CPUs up to 300MHz**
- **Supports CRT and 18-bit TFT Panels**
- **LVDS interface onboard**
- **Supports NTSC/PAL TV outputs**
- **10/100Base-T Fast Ethernet**
- **Integrated AC-97 2.0 (meets PC98™ Basic Audio spec.) SoundBlaster compatible legacy audio**
- **4 TTL digital input bits & 4 TTL digital output bits**
- **Supports DiskOnChip® (SSD) up to 288MB**

Specifications

General Functions

CPU	NS Geode Series processor 200~300MHz
CPU type	Intel Socket 7
BIOS	Award 256KB FLASH BIOS
Chipset	NS CS5530A
I/O Chipset	NS97317/ITE IT8661
Memory	Onboard one 168-pin DIMM socket supports 128MB SDRAM
Enhanced IDE	Supports two IDE devices. Supports Ultra DMA33 Mode with data transfer rate up to 33MB/sec.
FDD interface	Supports two floppy disk drives, 5.25" (360KB and 1.2MB) and/or 3.5" (720KB, 1.44MB, and 2.88MB)
Parallel port	Configured to LPT1, LPT2, LPT3 or disabled. Supports SPP, ECP, and EPP modes
Serial port	Three RS-232 and one RS-232/422/485 serial ports. Ports can be configured as COM1, COM2, COM3, COM4 or disabled individually. (16C550 equivalent)
IR interface	Supports one IrDA Tx/Rx header
KB/PS2 Mouse connector	Dual 6-pin mini DIN connectors support PC/AT keyboard and connector PS/2 mouse
USB connectors	Dual USB ports onboard
Battery	Lithium battery for data retention
DMA	7 DMA channels (8237 equivalent)
Interrupt	15 interrupt levels (8259 equivalent)
Watchdog timer	Can generate a system reset or IRQ15. Software selectable time-out interval (2 sec.~255 sec. 1sec./step)
Power management	Supports ATX power supply. Supports PC97, modem ring-in functions. I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant

Flat Panel/CRT Interface

Chipset	NS CS5530A
Display memory	Shared memory up to 4MB
Display type	Supports non-interlace CRT and up to 18-bit TFT LCD displays. Can display both CRT and Flat Panel simultaneously
Resolution	Up to 1024 x 768 @ 64 K colors

LVDS Interface

Chipset	Thine Thc63LVDM63A
Interface	One 10 x 2 header (2.0 mm) onboard supports LVDS function

Audio Interface

Chipset	NS CS5530A. Compatible with SoundBlaster, SoundBlaster Pro, and Windows Sound System
Interface	Onboard line_in, line_out, and Mic_in jacks

Digital I/O Interface

One 5 x 2 (2.0 mm) header supports 4 TTL digital input bits & 4 TTL digital output bits individually

TV Display Interface

Chipset	Chrontel 7003
Display interface	Onboard (RCA/S) jacks support NTSC/PAL composite outputs

Ethernet Interface

Chipset	Intel 82559X 10/100Base-T Fast Ethernet controller
Ethernet interface	Onboard 10/100Base-T RJ-45 connector

SSD Interface

One 32-pin DIP socket supports M-Systems DiskOnChip® 2000 series up to 288MB

Expansion Interface

PCI/ISA slot	One PCI/ISA slot onboard

Mechanical and Environmental

Power supply voltage	+5 V (4.75 V to 5.25 V), +12 V (11.4 V to 12.6 V)
Operating temperature	32 to 140° F (0 to 60° C)
Board Size	7.95" (L) x 6.4" (W) (202 mm x 163 mm)
Weight	1.2 lb. (0.5 Kg)

* Please refer to our website for detailed power consumption information.