

MBM-530NS

**586 All-in-one
Multimedia Embedded
Computer With
VGA/LCD/LAN/Audio
Version: 1.0**

Features

- ◆ Cost-effective embedded solution with long-term availability, expansion capabilities and cutting edge hardware structures
- ◆ On-board high-performance NS GX1 low-voltage CPU up to 300Mhz
- ◆ Supports IrDA wireless transmissions
- ◆ Designed for superior shock and vibration protection
- ◆ Low power consumption and heat dissipation
- ◆ Multi-layer PCB for noise reduction

Specification

CPU

- ◆ National Semiconductor Gx1 300Mhz Lower Power CPU

Chipset

- ◆ NS Geode CS5530A

RAM Memory

- ◆ One 144-pin SODIMM Socket Supports up to 128MB SDRAM

L2 Cache Size

- ◆ None

Flash Disk

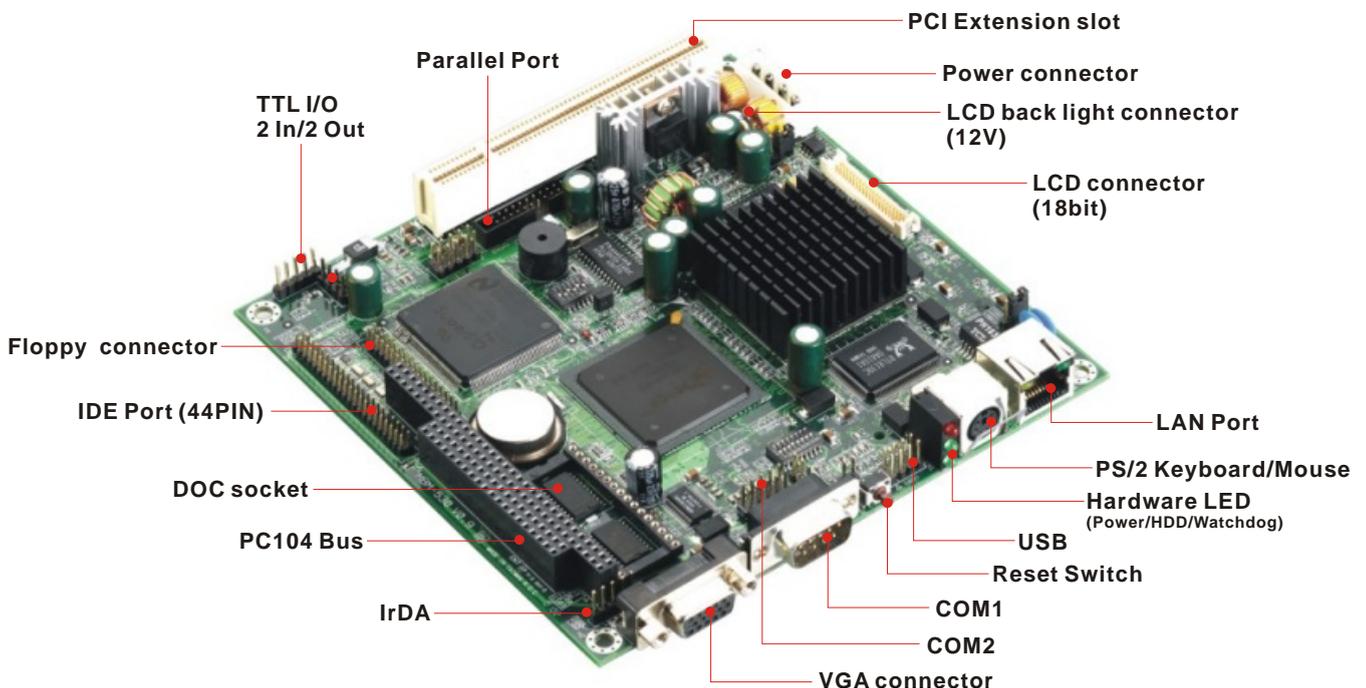
- ◆ Provides One Socket for 2MB-288MB DiskOnChip

PCI IDE

- ◆ Supports PIO MODE 4 IDE Devices 44-pin 2.00mm header for DOM/HDD

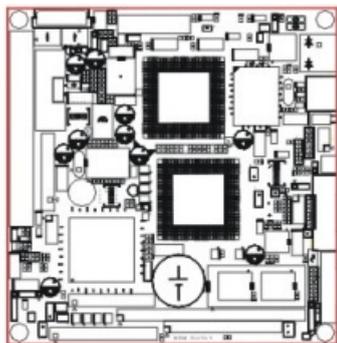
Super I/O

- ◆ PC97317 Super IO Chipset
- ◆ FDD Port- Supports 3.5" or 5.25" Floppy Devices
- ◆ Parallel Port- Support SPP/EPP/ECP Mode
- ◆ COM Port- One RS232C, One RS232C/RS485C with 5V Selected by Jumper
- ◆ IR Port- One 115Kbps IrDA Compliant Serial Infrared



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TTL I/O

- ◆ Two TTL level input / Two TTL level output

Ethernet

- ◆ Supports Realtek 8139C 10/100M Base-T Ethernet with RJ45-LED indicator Connector

USB

- ◆ Supports Two USB Ports

KB+PS/2 Mouse

- ◆ PS/2 Keyboard and Mouse with On board connector

BIOS

- ◆ Award BIOS (256KB, including VGA BIOS)

Real Time Clock

- ◆ Built-in RTC with Backup Battery

Sound

- ◆ LM 4548 Audio Chipset Supports Mic_in/Line_in/Line_out Functions

Display

- ◆ Geode CS5530A is Built-in with VGA/LCD Display Function Sharing with System Memory 4MB. Supports CRT Display Resolution 1024x768 @64K colors (max). and 18 Bit TFT LCD Display Simultaneous

LED Indicators

- ◆ Power LED and IDE LED

EXT BUS

- ◆ 16 Bit PC/104 BUS and 32 Bit PCI BUS (PCI Bus depends on the PCB size)

WDT

- ◆ Programmable WDT providing 2-32 sec. Timer Intervals with LED indicator, 16 levels

Power Req.

- ◆ +5V/1.7A and 12A/0.1A (Max)

CE Design-In

- ◆ Add EMI Components to COM ports, Parallel Port, Keyboard, and PS/2 Mouse

PC Board

- ◆ 6 layers

Dimensions

- ◆ PC/104 Bus and PCI Slot, 145 mm x 140 mm (5.7"x5.5")

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