FORMOSA INDUSTRIAL COMPUTING, INC.

www.formosa21.com

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
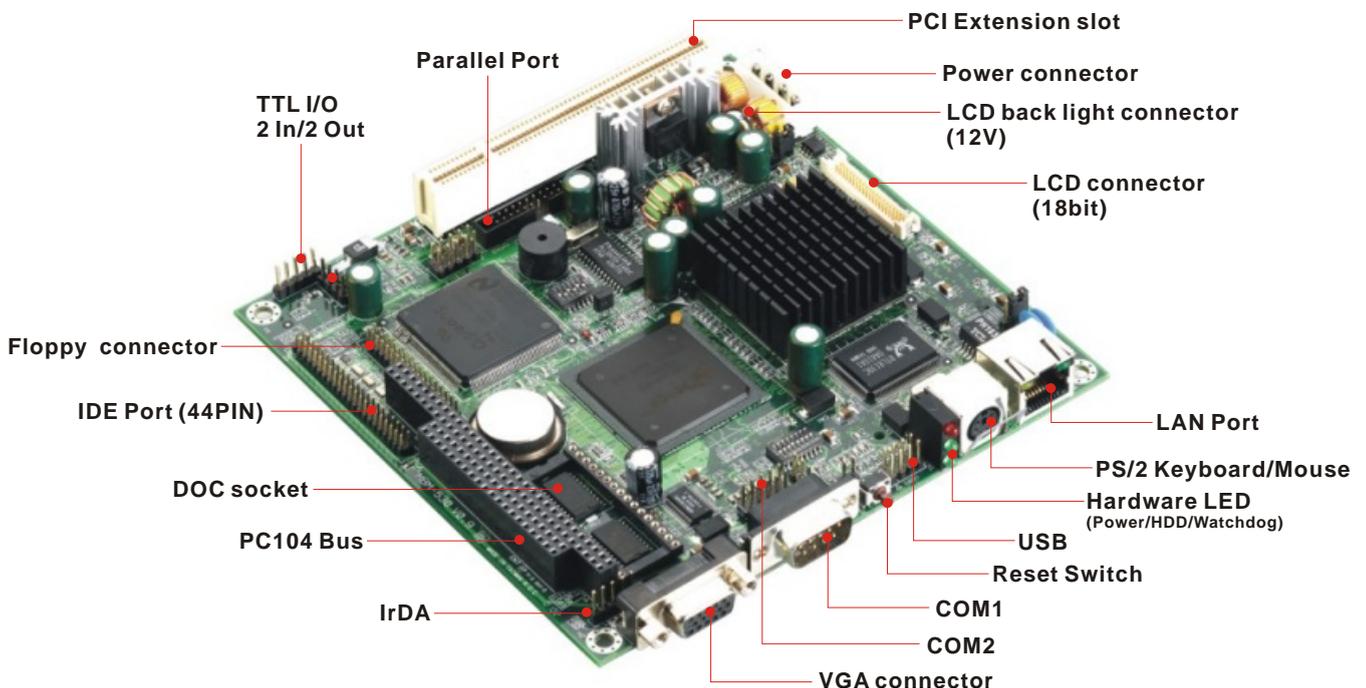- ♦ None

Flash Disk
- ♦ Provides One Socket for 2MB-288MB DiskOnChip

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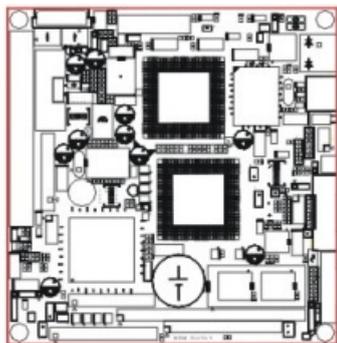- ♦ Supports PIO MODE 4 IDE Devices 44-pin 2.00mm header for DOM/HDD

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")