



■ Features

- Onboard **Low Power NS Geode CPU**
- **Integrated Video** with shared 2MB memory
- Supports **TFT Flat Panel/CRT** display up to 1024x768 at 64K colors
- **Integrated TV Output** function for NTSC and PAL modes
- **Integrated Sound** functions
- Onboard **PCI Fast Ethernet 10/100Base-T** interface
- **CompactFlash** socket (EM-350A)
- **PCMCIA** socket (EM-350A)
- Socket for **DiskOnChip 2000**
- **Enhanced IDE** interface
- **Super I/O** and **USB** ports
- **Optional GPS** kit
- **Optional EM-C100A Microbox Chassis**

■ Ordering Information

- **EM-350A:** 3.5" Embedded SBC with on-board NS Geode GXm 233MHz processor, VGA/LCD display controller, Fast Ethernet controller, Sound & TV-out interface, and CompactFlash & PCMCIA sockets.
- **EM-350C:** 3.5" Embedded SBC with on-board NS Geode GXm 233MHz processor, VGA/LCD display controller, Fast Ethernet controller, and Sound & TV-out interface.
- **EM-GPS:** Optional GPS kit, includes GPS receiver module, active antenna and 5m cable.
- **EM-C100A:** Optional Microbox Chassis with 6.4" TFT LCD and power supply.
- **EM-350x/200~300:** 3.5" Embedded SBC with 200/266/300 NS Geode GXm processor. Special order only. Call Lanner USA for detail.

■ Specifications

- **Processor**
On-board 233MHz National Semiconductor Geode GXm 32-bit x86, MMX technology compatible processor with integrated FPU and 16KB L1 cache. (200/266/300MHz processor optional)
- **Chipset**
NS CS5530 companion chipset & Winbond 83977F I/O chip.
- **BIOS**
256KB Award license BIOS.
- **System Memory**
One SODIMM socket supports up to 128MB of SDRAM.
- **Solid State Disk (SSD)**
One 32-pin DIP socket supports M-Systems' DiskOnChip up to 144MB.
- **Video Controller**
NS CS5530 2D graphics with shared 2MB video memory. Supports CRT & 18-bit TFT LCD display at resolutions and color depth up to 1024x768x16bpp.
- **Ethernet Controller**
Realtek RTL8139x PCI Fast Ethernet (10/100Base-T) controller with RJ-45 connector.
- **Sound**
Built-in sound functions by AD1819A Audio CODEC, include Mic-in, Line-in, Line-out and Speaker-out connectors.
- **TV Out**
CHRONTEL CH7003B TV Encoder with composite/S-Video/RGB TV output connectors for NTSC and PAL modes.
- **CompactFlash**
One CompactFlash socket supports Type I and Hot-plug function.
- **PCMCIA**
RICOH R5C476II PCMCIA Bridge with one PCMCIA socket supports Type I or II and Hot-plug function.
- **IDE Interface**
One PCI Enhanced IDE interface supports up to two (PCI Bus Master, Ultra DMA/33, Multiword DMA & PIO mode 0-4) IDE devices.
- **FDD Interface**
One FDD interface supports up to two floppy devices.
- **Serial Port**
Two 16550 serial ports, one RS-232 and one RS-232/422/485 selectable.
- **Parallel Port**
One parallel port supports for EPP, ECP and SPP modes.
- **Universal Serial Bus**
Two USB connectors.
- **IR Interface**
One IrDA header.
- **Keyboard / Mouse**
One 6-pin Mini-Din PS/2 keyboard/mouse connector.
- **Power Connector**
Onboard 4-pin power connector.
- **Power Management**
I/O peripheral devices support power saving and doze/standby/suspend modes. APM 1.2 compliant.
- **GPS Expansion**
Reserved header for EM-GPS kit.
- **RTC**
Internal RTC with Lithium battery.
- **Mechanical / Environmental**
Dimension: 145X102mm (5-3/4"x4")
Weight: 250g (0.55lbs)
Operating Temperature: 0°C ~ 60°C
Storage Temperature: -20°C ~ 70°C
Operating Humidity: 10% ~ 90% RH, non-condensing
Power: 3.19A at +5V, 0A at -5V
0.09A at +12V, 0A at -12V
(max w/ 233MHz CPU and 128MB RAM)



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