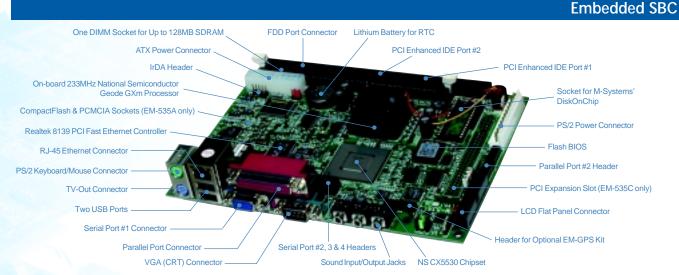
EM-535 Series 5.25" Embedded SBC with Onboard NS Geode GXm CPU



Introduction

The EM-535 embedded SBC is a great choice for any multimedia applications, such as kiosk, set-top box, POS, panel PC, and HMI.

The on-board **National Semiconductor Geode GXm** processor and its companion CS5530 chipset support up to 128B memory and provide full functionality and performance you need.

EM-535 features **TFT LCD Panel/CRT** display function that supports resolutions and color depth up to 1024x768 at 64K colors, **TV output**, and **sound functions**. And the Realtek RTL8139 chip provides **Fast Ethernet** for network connectivity.

EM-535A includes one **CompactFlash** socket and one **PCMCIA** socket. While the EM-535C has one **PCI expansion slot**, but no CF or PCMCIA socket.

Ordering Information

• EM-535A: 5.25" Embedded SBC with on-board 233MHz NS Geode GXm processor and VGA/ LCD/Fast Ethernet/Sound/CompactFlash socket/ PCMCIA socket.

• **EM-535C:** 5.25" Embedded SBC with on-board 233MHz NS Geode GXm processor and VGA/ LCD/Fast Ethernet/Sound/PCI slot.

• **EM-535x/200~300:** 5.25" Embedded SBC with 200/266/300MHz 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 licensed flash BIOS.
- System Memory
 One 168-pin DIMM socket supports up to
 128MB of SDRAM.
- Solid State Disk (SSD) One 32-pin DIP socket supports M-Systems' DiskOnChip up to 144MB.
- Video NS CS5530 2D graphics with shared 2MB video memory. Supports CRT & 18bit TFT LCD display at resolutions and color depth up to 1024x768 x 16bpp.
- Ethernet 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 jacks.
- TV Out CHRONTEL CH7003B TV Encoder with composite/S-Video/RGB TV output connectors for NTSC and PAL modes.
- CompactFlash (EM-535A only) One CompactFlash socket supports Type I and Hot-plug function.
- PCMCIA (EM-535A only) RICOH R5C476II PCMCIA Bridge with one PCMCIA socket supports Type I or II and Hot-plug function.

IDE Interface

Two PCI Enhanced IDE interface supports up to four (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 I/O Four 16550 serial ports, three RS-232 and one RS-232/422/485 selectable.
- Parallel I/O Two parallel ports supports for EPP, ECP and SPP modes.
- Keyboard, Mouse and USB One 6-pin Mini-Din PS/2 keyboard/mouse connector and Two USB Ports.
- IR Interface One IrDA header.

• GPS

Reserved header for optional GPS kit. • Power Connector

- ATX and PS/2 power connectors.
- **Power Mangement** I/O peripheral devices support power saving and doze/standby/suppend modes. APM 1.2 compliant.
- Expansion Bus (EM-535C only) One PCI expansion slot.
- Real Time Clock
 Internal RTC with Lithium battery.
- Mechanical / Environmental
 Dimension: 146X203mm (5-3/4" x 8")
 Weight: 334.5g (11.8oz)
 Operating Temperature: 0°C ~ 60°C
 Storage Temperature: -20°C ~ 70°C
 Operating Humidity: 10% ~ 90% RH, non-condensing

 Power: 3.25A at +5V, 0.01A at -5V 0.01A at +12V, 0.01A at -12V
 (max w/ 233MHz CPU and 128MB RAM)



Lanner Electronics Inc.

925 Canada Court • City of Industry, CA 91748 • U.S.A. Tel: (626) 581-1898 • Fax: (626) 581-1897 • www.lanner-usa.com • info@lanner-usa.com