EM-351A

NS GX1-300 SBC with VGA/LCD/2xLAN /Sound/TV/GPS/CompactFlash

LAN 1/USB Port
TV & Keyboard/ Mouse Connector
Mic-in/Speaker-out
VGA   LPT1
Reset Switch
COM1&COM2 Connector
LAN2, LPT2, COM3 and COM4 Connector
Fan Power Connector
NS Geode™ CS5530A chipset
GPS Connector
NS Geode™ GX1-300 MHz CPU
Compact Flash Socket(Type II)
IDE Connector
Li Battery
Flash BIOS
LCD Connector
FDD Port   Power Connector
Socket for M-Systems DiskOnChip®
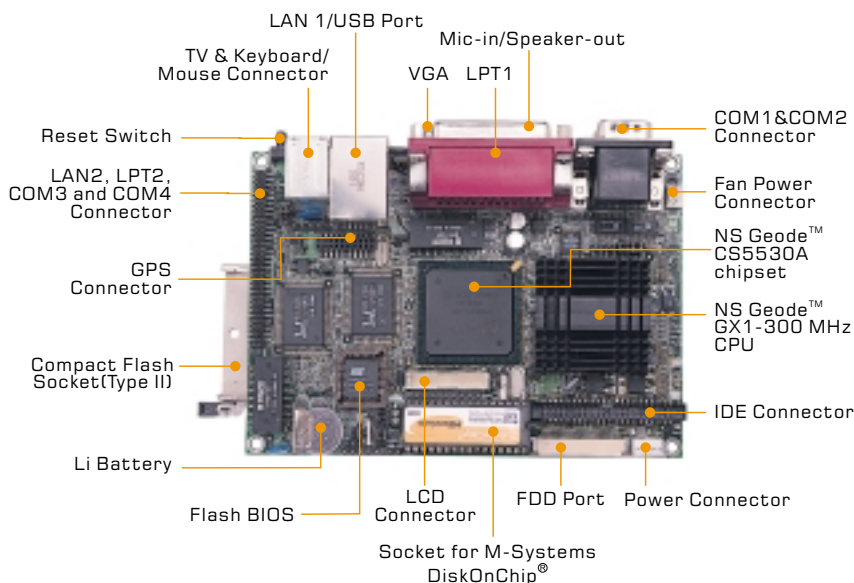
FEATURES

- On-board low power CPU (NS Geode™ GX1-300 MHz)
- NS Geode™ CS5530A, display memory shared with system memory 2MB
- One SODIMM socket
- Built-in VGA/LCD/TV and sound functions, Support multimedia application
- Support Dual-10/100 Base-T interface
- Sockets for CompactFlash
- Reserved Header for GPS module
- Four COM ports and two parallel ports
- 3.5" form factor

SPECIFICATION

CPU   NS Geode™ GX1-300 MHz Lower Power CPU on-board

Chipset   NS CS5530A

BIOS   256KB Award® license BIOS

System Memory   1x144-pin SODIMM socket, support up to 128MB SDRAM

VGA/LCD
NS CS5530A, shared memory 2MB, resolution up to 1024 x 768 @ 64K Colors

TV Output
NTSC/PAL mode, support Composite /S-Video /R-G-B output

Sound Output
Built-in sound functions, include Mic- in/ Speaker-out connectors

Ethernet
2 Realtek RTL8139C, support 10 /100 Base-TX interface

Flash Memory Disk
Reserved socket for DiskOnChip® from M-System, support up to 72 MB flash memory disk

GPS connector   Reserved Header for GPS Kit

CompactFlash Socket   1 CompactFlash Socket, support ATA mode, Type II

IDE Interface
1 PCI IDE port, support up to 2 IDE devices. Support PIO mode 4 and Bus Master. Also support Multi-word DMA and Ultra DMA/33.

Floppy Drive Interface
1 FDD port , support 1 Floppy device

Serial Port
4 COM ports ,3 RS-232 and 1 RS-232/422 /485

Parallel Port
2 Multi-mode parallel ports(SPP/EPP/ECP)

Keyboard/Mouse connector
1x 6-pin mini-DIN PS/2 keyboard/mouse connector on-board.

Universal Serial Bus   Support 2 USB ports

IR Interface   Support 1 IrDA header

RTC : Internal RTC with Li battery

Power Connector   On-board 4-pin power Connector (NC, GND, GND, +5)

Power Management   I/O peripheral devices support power saving and doze/standby/ suspend modes. APM 1.2 compliant.

Power Consumption
+5V@2.1A (GX1-233MHz, 128MB SDRAM)

Operating Temperature 0^{0}C~ 60^{0}C

Storage Temperature -10^{0}C~ 70^{0}C

Humidity
5% ~ 95% RH, non-condensing

Dimensions
145 x 102 mm (5 3/4" x 4")

Net Weight
250 g (0.55 pounds)