



### Features

- 3.5" FDD SubCompact Form Factor
- Onboard NS Geode GX1-300 Low-power BGA CPU
- Supports CRT and 18-bit TFT Panels
- LVDS interface (GENE-4312S/T Only)
- TV-out interface (GENE-4312T Only)
- Dual 10/100Base-T Fast Ethernet
- Integrated AC-97 2.0 Sound Blaster compatible Audio
- Supports Type II CompactFlash Memory
- 2 COMs / 1 Parallel / 2 USBs / 1 IrDA
- 5V only operation



### Specifications

#### System

- **CPU** Onboard NS Geode GX1 300MHz processor
- **System Memory** SDRAM SODIMM X 1, Max. 256MB
- **Chipset** NS CS5530A
- **I/O Chipset** Winbond W83977. Fully 16-bit I/O decoded
- **BIOS** Award 256KB FLASH BIOS
- **Ethernet** RTL 8139C, 10/100Base-T RJ-45 connector x 2
- **SSD** Type II CompactFlash socket
- **Watchdog timer** Can generate a system reset, IRQ
- **Expansion Interface** PC/104 connector x 1
- **Battery** Lithium battery
- **DMA** 7 DMA channels (8237 equivalent)
- **Interrupt** 15 interrupt levels (8259 equivalent)
- **H/W status monitoring** Winbond W83781D H/W status monitoring IC supports power supply voltages, fan speed, and temperatures monitoring
- **Power supply voltage** +5V (4.75V to 5.25V), AT.
- **Size/ Weight** 5.75" (L) x 4" (W) (146 mm x 101.6 mm), 0.88lb. (0.4Kg)
- **Operating temperature** 32°F to 140°F (0°C to 60°C)

#### I/O

- **MIO** IDE (UDMA33) x 1, FDD x 1, KB+Mouse x 1, RS-232 x 1, RS-232/422/485 x 1, Parallel x 1
- **IrDA** One IrDA Tx/Rx header
- **Audio** NS CS5530A, AC97 2.0 compliant
- **USB** One 5x2 pin header supports 2 USB 1.1 ports

#### Display

- **Chip** NS CS5530A
- **Memory Size** Shared memory up to 4MB
- **Resolution** Up to 1024 x 768@ 16bpp colors for CRT
- **LCD Interface** Up to 18-bit TFT LCD panels.
- **TV-out** Chrontel 7003 (GENE-4312T only)
- **LVDS Interface** 18-bit LVDS LCD panel (GENE-4312S/T only)

### Packing List

- IDE cable 1701440500
- FDD cable 1701340600
- COM port cable kit (1 parallel, 1 serial) 1701010302
- Audio cable 1700140510
- TV-OUT & S-Terminal cable(GENE-4312T only) 1700080180
- KB/Mouse cable 1700060192
- USB Cable 1709100201
- Jumper Cap 9657666600
- LVDS cable(GENE-4312S/T only) 1701200201
- Quick Installation Guide
- Utility CD

\* GENE-4312 offers embedded Linux solution that was developed by an AAEON business partner, Redsonic. Please visit : [www.redsonic.com](http://www.redsonic.com) for detailed information.