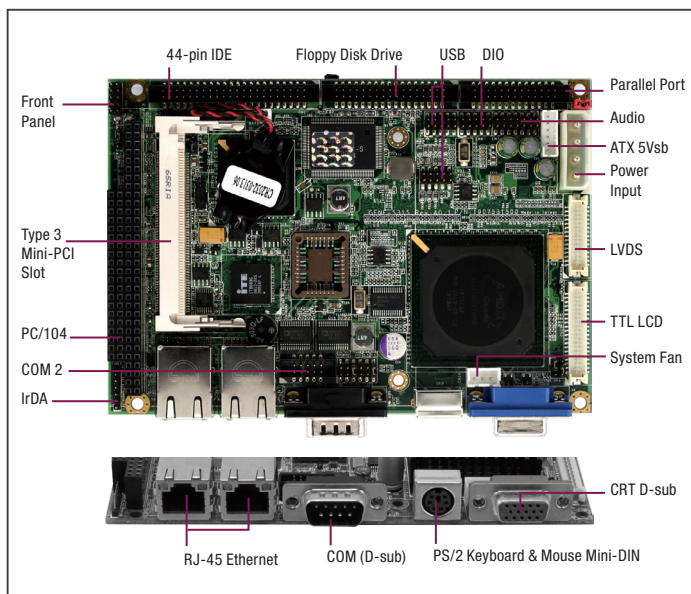


# GENE-5315 Rev. A

3.5" SubCompact Board with AMD Geode™ LX Series Processor



## Features

- Onboard AMD Geode™ LX800 Processor
- AMD Geode™ LX + CS5536
- DDR 333 MHz SODIMM, Up to 1 GB or DDR 400 MHz SODIMM, Up to 512 MB
- 10/100Base-TX Ethernet x 2, RJ-45 x 2
- Up to 24-bit Single Channel LVDS/ TTL LCD & CRT
- AC97 Codec 2CH Audio
- EIDE x 1, Floppy Disk Drive x 1, CompactFlash™ x 1
- COM x 2, Parallel x 1, USB2.0 x 4, 8-bit Digital I/O
- Mini-PCI And PC/104 Expansions
- +5V Only Operation



## Specifications

| System            |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Form Factor       | 3.5" SubCompact Board                                                 |
| CPU               | AMD Geode™ LX800 Processor<br>AMD Geode™ LX 800(500MHz, 3.6W)         |
| Chipset           | CS5536                                                                |
| Memory Type       | DDR333 SODIMM x 1 (DDR400 optional), up to 1GB                        |
| BIOS              | Award 1MB                                                             |
| Wake on LAN       | Yes                                                                   |
| Watchdog Timer    | 255 Levels                                                            |
| Security          | —                                                                     |
| RTC Battery       | Lithium Battery 3V/240mAh                                             |
| Dimensions        | 5.75" x 4" (146mm x 101.7mm)                                          |
| OS Support        | Windows XP 32-bit                                                     |
| Power             |                                                                       |
| Power Requirement | +5V                                                                   |
| Power Supply Type | AT/ATX                                                                |
| Connector         | 4Pin Connector                                                        |
| Power Consumption | LX 800 500 MHz, DDR400 1 GB, 1.17A@+5V(Typical)                       |
| Display           |                                                                       |
| Controller        | AMD Geode™                                                            |
| LVDS/eDP          | Up to 24-bit Single Channel LVDS/ TTL LCD                             |
| Display Interface | VGA x1, up to 1920 x 1200                                             |
| Multiple Display  | Up to 2 Simultaneous Displays                                         |
| Audio             |                                                                       |
| Codec             | High Definition Audio Interface                                       |
| Audio Interface   | Line-In / Line-Out / Mic (Audio function not available for WiTAS SKU) |
| Speaker           | —                                                                     |
| External I/O      |                                                                       |
| Ethernet          | 10/100Base-TX x 2, Realtek RTL 8139DL                                 |
| USB               | —                                                                     |
| Serial Port       | COM1(RS-232)                                                          |
| Video             | VGA x1                                                                |
| Internal I/O      |                                                                       |
| USB               | USB2.0 x 4                                                            |
| Serial Port       | COM2(RS-232/422/485)                                                  |
| Video             | TTL LCD x1<br>LVDS LCD x1                                             |
| SATA              | —                                                                     |
| Audio             | Audio Header x 1(Audio function not available for WiTAS SKU)          |
| DIO/GPIO          | 8-bit                                                                 |
| SMBus/I2C         | —                                                                     |
| Touch             | —                                                                     |

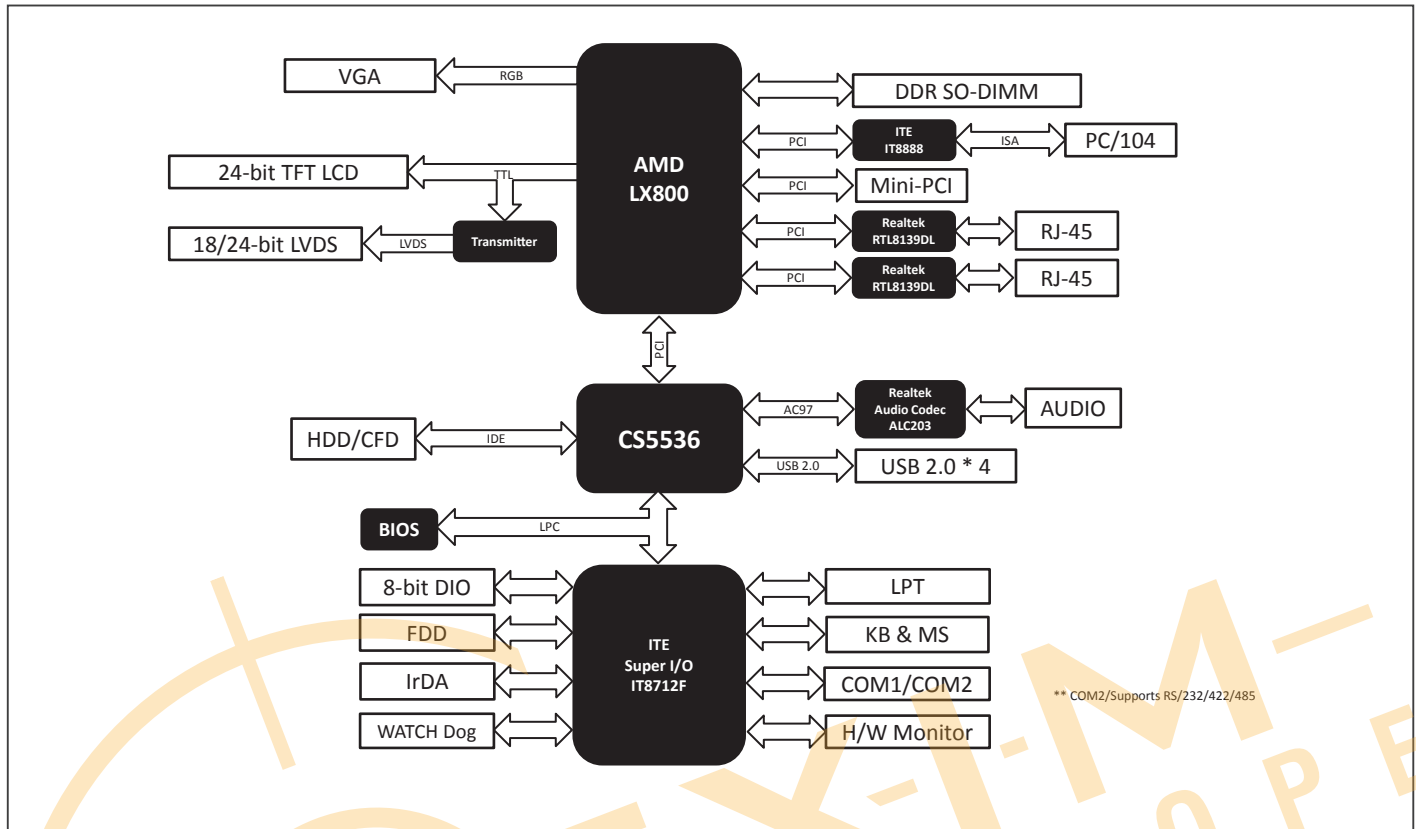
| Fan                         | System Fan x1                                 |
|-----------------------------|-----------------------------------------------|
| Sim                         | —                                             |
| Front Panel                 | HDD LED, PWR LED, Power Button, Buzzer, Reset |
| Others                      | SPP/EPP/ECP x 1, CompactFlash™ x1, UDMA33 x 1 |
| Expansion                   |                                               |
| Mini PCIe/mSATA             | —                                             |
| M.2                         | —                                             |
| Others                      | Mini-PCI x1, PC/104 x1, Floppy Disk Drive x 1 |
| Environment & Certification |                                               |
| Operating Temp.             | 32°F ~ 140°F (0°C ~ 60°C)                     |
| Storage Temp.               | -40°F ~ 176°F (-40°C ~ 80°C)                  |
| Operating Humidity          | 0% ~ 90% relative humidity, non-condensing    |
| MTBF (Hours)                | 90,000                                        |
| EMC                         | CE/FCC Class A                                |

## Packing List

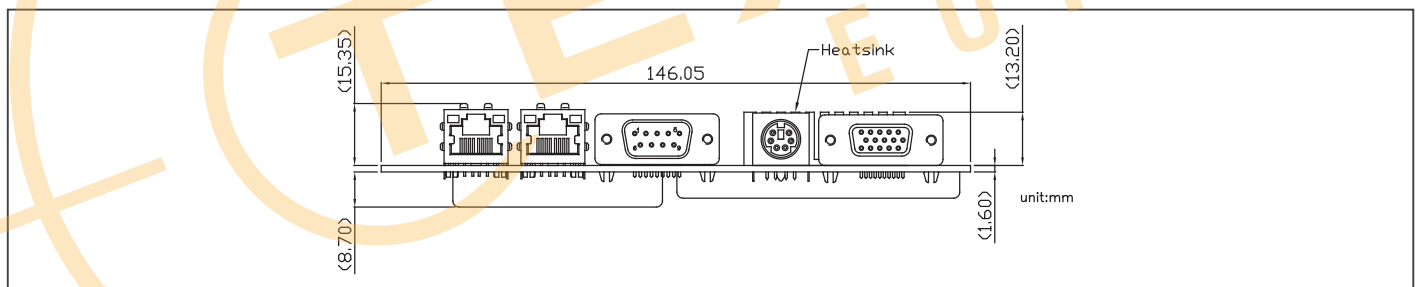
| Part Number | Description             | QTY |
|-------------|-------------------------|-----|
| GENE-5315   | GENE-5315 Rev. A MB     | 1   |
| 9681Y00006  | Cable Kit for GENE-5315 | 1   |
| 170X000917  | Keyboard & Mouse Cable  | 1   |
| 170X000916  | USB Cable               | 1   |
| 170X000918  | IDE Cable               | 1   |
| 9657666600  | Jumper Cap              | 1   |

## Optional Accessories

| Part Number | Description                                        | QTY |
|-------------|----------------------------------------------------|-----|
| 1702200205  | Conversion Cable for ATX Power Supply, Length 20cm | 1   |
| 170X000834  | Audio Cable, Length 18cm                           | 1   |
| 1709100208  | USB Cable, Length 20cm                             | 1   |
| 1701100206  | COM Port Cable, 9P DB Male, Length 20cm            | 1   |
| 170X000925  | Parallel Port Cable, Length 20 cm                  | 1   |
| 1701340600  | Floppy Cable, Length 60 cm                         | 1   |

**Block Diagram****Dimension**

Unit: mm

**Ordering Information**

| Part Number      | CPU              | Fan/<br>Fanless | Display                 | LVDS     | Storage                                     | LAN    | USB        | RS-232 | RS-232/422/485 | Expansion<br>Slot          | Power       | Power<br>Temp | Others  |
|------------------|------------------|-----------------|-------------------------|----------|---------------------------------------------|--------|------------|--------|----------------|----------------------------|-------------|---------------|---------|
| GENE-5315-A13    | AMD Geode™ LX800 | Fanless         | CRT + LVDS<br>CRT + TTL | 24b, 1CH | EIDE x 1<br>Floppy x 1<br>CompactFlash™ x 1 | FE x 2 | UBS2.0 x 4 | 1      | 1              | Mini-PCI x 1<br>PC/104 x 1 | +5V, AT/ATX | 0°C ~ 60°C    | DIO x 8 |
| GENE-5315-A13-01 | AMD Geode™ LX800 | Fanless         | CRT + LVDS<br>CRT + TTL | 18b, 1CH | EIDE x 1<br>Floppy x 1<br>CompactFlash™ x 1 | FE x 2 | UBS2.0 x 4 | 1      | 1              | Mini-PCI x 1<br>PC/104 x 1 | +5V, AT/ATX | 0°C ~ 60°C    | DIO x 8 |

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