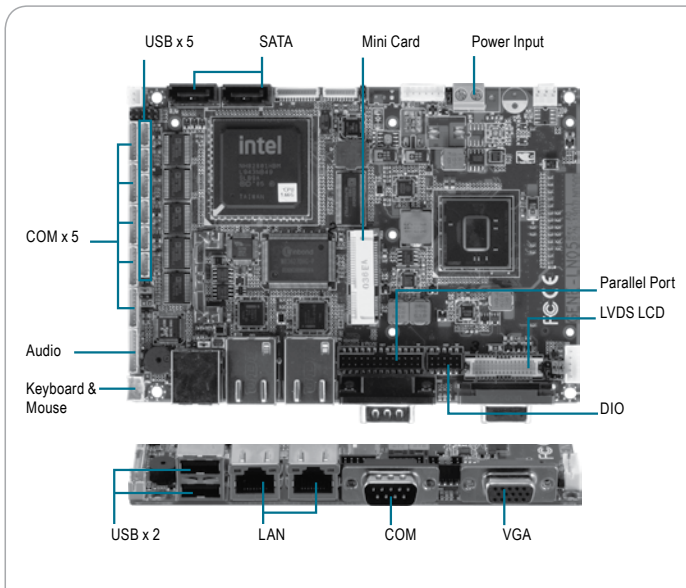


# GENE-LN05

3.5" SubCompact Board With Intel® Atom™ N450/ D510 Processors



## Specifications

System	
Form Factor	3.5"
Processor	Intel® Atom™ N450/D510 1.66 GHz Processors
System Memory	200-pin DDR2 SODIMM x 1, Max. 2 GB (DDR2 667/800)
Chipset	Intel® ICH8M
I/O Chipset	Nuvoton W83627DHG-P, Fintek F81216DG
Ethernet	Intel® 82567V & 82583V, 10/100/1000Base-TX, RJ-45 x 2
BIOS	AMI Plug & Play SPI BIOS - 4MB Flash
Wake on LAN	Yes
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages and temperature monitoring
Expansion Interface	Mini Card x 2, LPC bus
Trusted Platform Module (TPM)	Infineon SLB 9635 TT 1.2 (Optional)
Battery	Lithium battery
Power Requirement	+12V or +5V (optional), AT/ATX
Power Consumption (Typical)	Intel® Atom™ D510, DDR2 2GB 1.54A@+12V
Board Size	5.75"(L) x 4"(W) (146mm x 101.6mm)
Gross Weight	0.88lb (0.4kg)
Operating Temperature	32°F~140°F (0°C ~ 60°C)
Storage Temperature	-40°F~176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	68,000
Display	
Supports CRT/LCD simultaneous/ dual view display	
Chipset	Intel® N450/D510 integrated
Memory	Shared system memory up to 384MB/DVMT 4.0
Resolutions	Up to 2048 x 1536 (QXGA) @ 60 Hz for CRT (D510) Up to 1400 x 1050 (SXGA) @ 60 Hz for CRT (N450) Up to 1366 x 768 or 1280 x 800 (WXGA) for LCD
LCD Interface	18-bit single channel LVDS
I/O	
Storage	SATA 3.0Gb/s x 2, CompactFlash™ x 1
Serial Port	RS-232 x 5, RS-232/422/485 (auto flow) x 1
Parallel Port	SPP/EPP/ECP x 1
Universal Serial Bus	USB2.0 x 7
PS/2 Port	Keyboard x 1, Mouse x 1
Digital I/O	Supports 8-bit (Programmable)
Audio	Line-in, Line-out, Mic-in
Touch Screen	Supports 4/5/8-wire resistive touch screen

## Features

- Intel® Atom™ N450/D510 Processors
- Intel® ICH8M
- DDR2 667/800 SODIMM, Max. 2 GB
- Gigabit Ethernet x 2
- CRT, 18-bit Single Channel LVDS LCD
- 2CH HD Audio
- SATA 3.0Gb/s x 2 (Optional RAID 0 & 1), CompactFlash™ x 1
- USB2.0 x 7, COM x 6, Parallel x 1, 8-Bit Digital I/O
- Onboard 4/5/8-wire Resistive Touch Screen Controller
- Mini Card x 2
- +12V or +5V (Optional) Operation
- Onboard Trusted Platform Module (Optional)



## Packing List

- 1700060157  
KB/Mouse Cable
- Product CD
- GENE-LN05 with Active Cooler (D510 Version) or with Passive Cooler (N450 Version)

## Ordering Information

- **TF-GENE-LN05-A10 (With Fan)**  
3.5" Board, Intel® D510, 2 Gigabit Ethernet, 6 COM, LPT, Touch Screen, CompactFlash™, 2 Mini-Card, 12V DC, Rev. A1.0
- **TF-GENE-LN05-A10-01 (Fanless)**  
3.5" Board, Intel® N450, 2 Gigabit Ethernet, 6 COM, LPT, Touch Screen, CompactFlash™, 2 Mini-Card, 12V DC, Fanless, Rev. A1.0
- **TF-GENE-LN05-A10-02 (With Fan)**  
3.5" Board, Intel® D510, 2 Gigabit Ethernet, 6 COM, LPT, Touch Screen, CompactFlash™, 2 Mini-Card, 5V DC, Rev. A1.0
- **TF-GENE-LN05-A10-03 (Fanless)**  
3.5" Board, Intel® N450, 2 Gigabit Ethernet, 6 COM, LPT, Touch Screen, CompactFlash™, 2 Mini-Card, 5V DC, Fanless, Rev. A1.0

## Optional Accessories

- 1700050207  
USB Cable, Length 20cm
- 1701090150  
COM Port Cable, Length 15cm
- 1709100254  
Audio Cable, Length 25cm
- 1709070500  
SATA Cable, Length 50cm
- 1701260200  
Parallel Port Cable, Length 20cm
- 1702002010  
Big 4P Power Input Cable for +12V Input, Length 10cm
- 1702150155  
Power Cable for 2.5" SATA Hard Disk, Length 15cm
- 170220020B  
Conversion Cable ATX Power Supply, Length 20cm
- 170204010P  
Big 4P Power Input Cable for +5V Input, Length 10cm