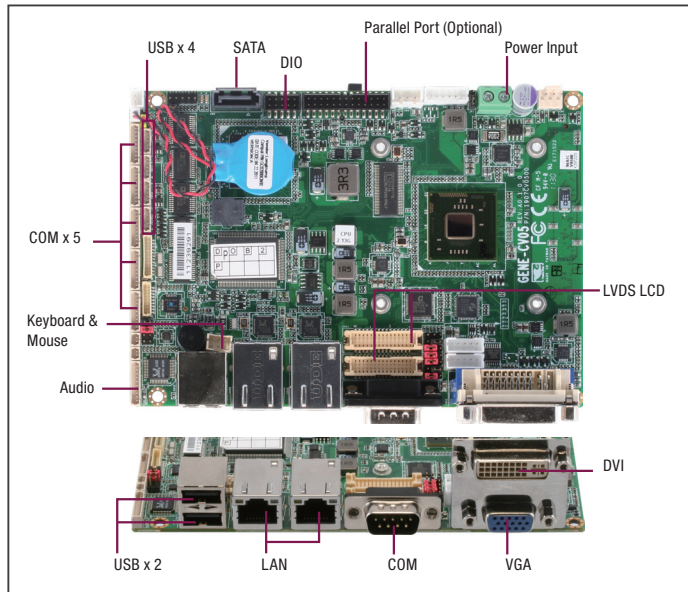


## 3.5" SubCompact Board with Intel® Atom™ D2550/N2800/N2600 Processor



## Specifications

System	
Form Factor	3.5" SubCompact Board
CPU	Intel® Atom™ D2550/N2800/N2600
CPU Frequency	Up to 1.86GHz
Chipset	Intel® NM10
Memory Type	DDR3 800/1066, SODIMM x 1
Max. Memory Capacity	4 GB
BIOS	SPI type
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	Intel® Atom™ N2800, DDR3 1333 4 GB 1.00A@+12V Intel® Atom™ N2600, DDR3 1066 2 GB 0.87A@+12V Intel® Atom™ D2550, DDR3 1333 4 GB 1.24A@+12V
Dimension (L x W)	5.75" x 4" (146mm x 101.6mm)
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)	62,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Atom™ D2550/N2800/N2600 integrated
Video Output	CRT+LVDS, CRT+DVI, LVDS+DVI, LVDS+LVDS
Backlight inverter supply	Up to 24-bit Dual-Channel LVDS
I/O	
Ethernet	Realtek RTL 8111E x 2, 10/100/1000Base-TX, RJ-45 x 2
Audio	High definition audio interface
USB Port	USB2.0 x 6
Serial Port	RS-232 x 5, RS-232/422/485 x 1
Parallel Port	SPP/EPP/ECP x 1 (Shared with COM6 by BOM)
HDD Interface	SATA2.0 x 1
FDD Interface	—
SSD	CFast™ (alternative with mSATA by BOM and also occupy one Mini-Card location)
Expansion Slot	Mini-Card x 1
DIO	8-bit
SIM	x 1
TPM	x 1
Touch	x 1

## Features

- Intel® Atom™ D2550/N2800/N2600 Processor
- Intel® NM10
- DDR3 800/1066 SODIMM x 1, Up to 4 GB For Intel® Atom™ D2550/N2800 and Up to 2 GB For Intel® Atom™ N2600
- Gigabit Ethernet x 2, RJ-45 x 2
- CRT, DVI, 18/24-bit Single Channel LVDS LCD + 18/24-bit Dual-Channel LVDS LCD For Intel® Atom™ D2550  
CRT, DVI, 18-bit Single Channel LVDS LCD + 18/24-bit Dual-Channel LVDS LCD For Intel® Atom™ N2800/N2600
- 2CH HD Audio + 2W Amplifier
- SATA 3.0 Gb/s x 1, CFast™ x 1
- USB2.0 x 6, COM x 6, 8-Bit Digital I/O, Parallel x 1 (Optional)
- Onboard 4/5/8-wire Resistive Touch Screen Controller
- Mini-Card x 1
- +12V Only Operation
- Onboard Trusted Platform Module (Optional)
- mSATA x 1 (Optional, Sharded Mini-Card Interface)
- AAEON Hi-Safe SDK/ Utility Supported



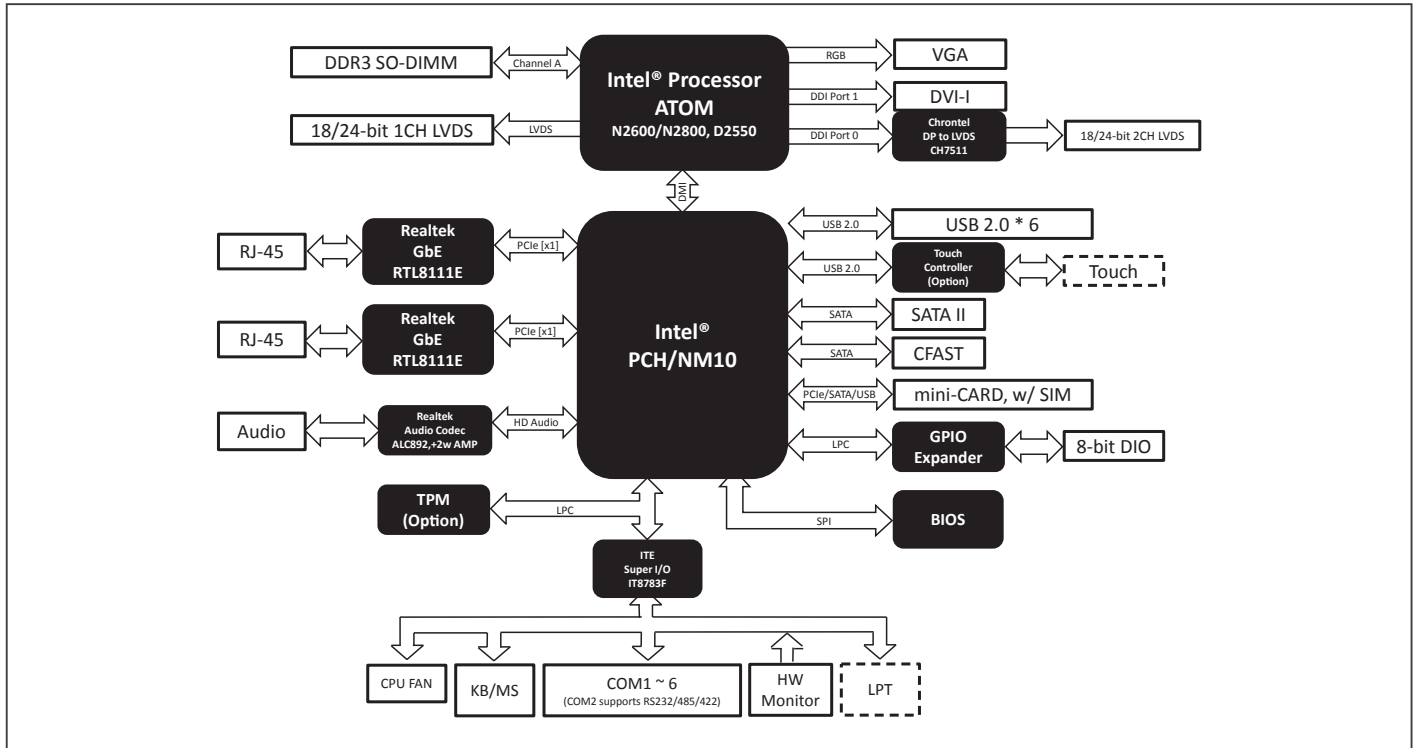
## Packing List

- GENE-CV05 with Passive Heatsink

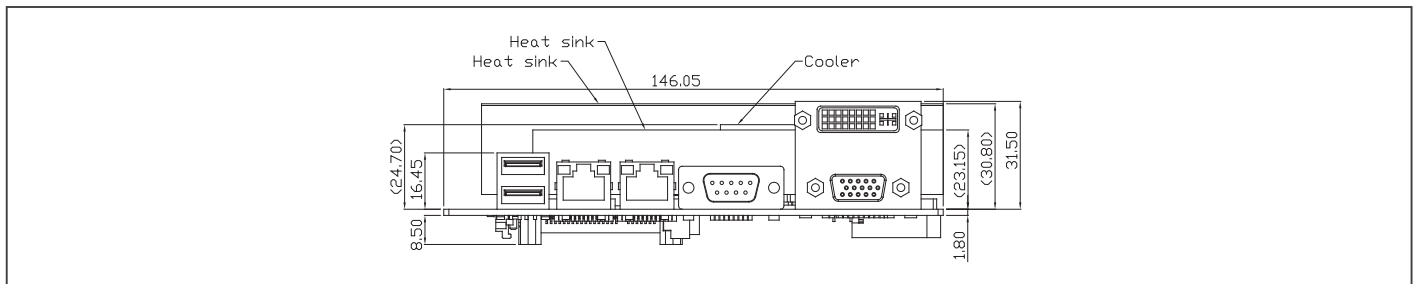
## Optional Accessories

Part Number	Description	QTY
1700050207	USB Cable, Length 20cm	1
1701090150	COM Port Cable, Length 15cm	1
1709100254	Audio Cable, Length 25cm	1
1709070500	SATA Cable, Length 50cm	1
1701260200	Parallel Port Cable, Length 20cm	1
170204010R	Big Double Row 4-Pin Power Input Cable For +12V Input, Length 10cm	1
1702150155	Power Cable for 2.5" SATA Hard Disk, Length 15cm	1
170220020B	Conversion Cable ATX Power Supply, Length 20cm	1
1700060157	Keyboard/Mouse Cable	1
205AGCV5A1	WES7 Japanese	1

## Block Diagram



## Dimension Unit: mm



## Ordering Information

Part Number	CPU	Chipset	Fan/ Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
GENE-CV05-A11-0001	Intel® Atom™ N2800	NM10	Fanless	CRT + LVDS (1 or 2) CRT + DVI LVDS (1 or 2) + DVI LVDS 1 + LVDS 2	1st 18b, 1CH 2nd 24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB2.0 x 6	5	1	Mini Card x 1	+12V, AT/ATX	0°C ~ 60°C	Touch Controller, SIM, DIO x 8
GENE-CV05-A11-0002	Intel® Atom™ N2600	NM10	Fanless	CRT + LVDS (1 or 2) CRT + DVI LVDS (1 or 2) + DVI LVDS 1 + LVDS 2	1st 18b, 1CH 2nd 24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB2.0 x 6	5	1	Mini Card x 1	+12V, AT/ATX	0°C ~ 60°C	Touch Controller, SIM, DIO x 8
GENE-CV05-A11-0003	Intel® Atom™ N2600	NM10	Fanless	CRT + LVDS	18b, 1CH	SATA x 1 CFast™ x 1	GbE x 2	USB2.0 x 6	3	1	Mini Card x 1	+12V, AT/ATX	0°C ~ 60°C	SIM, DIO x 8
GENE-CV05W2-A11-0003	Intel® Atom™ N2600	NM10	Fanless	CRT + LVDS	18b, 1CH	SATA x 1 CFast™ x 1	GbE x 2	USB2.0 x 6	3	1	Mini Card x 1	+12V, AT/ATX	WTAS 2 (-40°C~85°C)	SIM, DIO x 8

**Note:**  
Intel® Atom™ Processor D2000 series and N2000 series (CV) do NOT support DMA function that may affect ECP mode of Parallel port.  
D2550 support by project, please contact your sales.