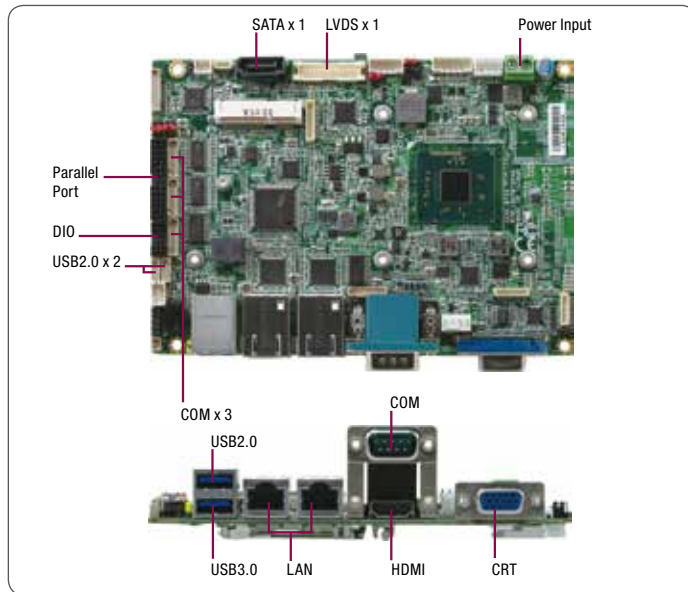


GENE-BT05

3.5" SubCompact Board with Intel® Atom™ and Celeron® Processor SoC



Specifications

System	
Form Factor	3.5"
Processor	Intel® Atom™/ Celeron® Processor SoC E3845: 4C/ 1.91 GHz/ 10W E3825: 2C/ 1.33 GHz/ 6W N2930: 4C/ 1.83 GHz/ 7.5W N2807: 2C/ 1.58 GHz/ 4.5W J1900: 4C/ 2.0 GHz/ 10W
System Memory	204-pin DDR3L 1066/1333 MHz SODIMM x 1, up to 8 GB
Chipset	Intel® Atom™ and Celeron® Processor SoC
I/O Chipset	Fintek F81866D
Ethernet	Intel® I211 (for N2930/N2807/J1900) Intel® I210 (for E3845/3825), 10/100/1000Base-TX, RJ-45 x 2
BIOS	AMI BIOS - 8 MB SPI 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 (Full-size x 1, Half-size x 1)
Trusted Platform Module (TPM)	Atmel, AT97SC3204 (optional)
Battery	Lithium battery
Power Requirement	+12V, AT/ATX
Power Consumption (Typical)	Intel® Celeron® N2930, DDR3L 1600 8 GB 0.65A @ +12V
Board Size	5.75" x 4" (146mm x 101.6mm)
Gross Weight	0.88 lb (0.4 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% R/H, non-condensing
MTBF (Hours)	111,000
Display	
	Supports CRT/LCD, HDMI/LCD simultaneous/ dual view displays
Chipset	Intel® Atom™ and Celeron® Processor SoC
Memory	Shared system memory up to 512 MB
Resolutions	Up to 2560 x 1600 for CRT, up to 1920 x 1200 for LCD, HDMI
LCD Interface	Up to 24-bit dual-channel LVDS x 1
HDMI	Up to 1920x1080 @ 60 Hz
I/O	
Storage	SATA 3.0 Gb/s x 1, CFast™ x 1, Half-size mSATA x 1 (Optional)
Serial Port	RS-232 x 2, RS-232/422/485 (auto flow) x 2
USB	USB3.0 x 1, USB2.0 x 3
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 (optional)

Features

- Onboard Intel® Atom™ and Celeron® Processor SoC
- DDR3L 1066/1333 MHz SODIMM x 1, Up to 8 GB
- Gigabit Ethernet x 2, RJ-45 x 2
- CRT, 18/24-bit Dual-Channel LVDS LCD, HDMI
- 2CH HD Audio
- SATA 3.0 Gb/s x 1, CFast™ x 1
- USB3.0 x 1, USB2.0 x 3, COM x 4, 8-bit Digital I/O
- Mini-Card x 2 (Full-size x 1, Half-size x 1)
- +12V Only Operation
- Onboard 4/5/8-wire Resistive Touch Screen Controller (Optional)
- AAEON Hi-Safe/SDK/Utility Supported
- mSATA x 1 (Optional, Would Replace Mini-Card Interface)
- Onboard Trusted Platform Module (Optional)



Packing List

- Product DVD
- GENE-BT05 with Passive Heatsink

Optional Accessories

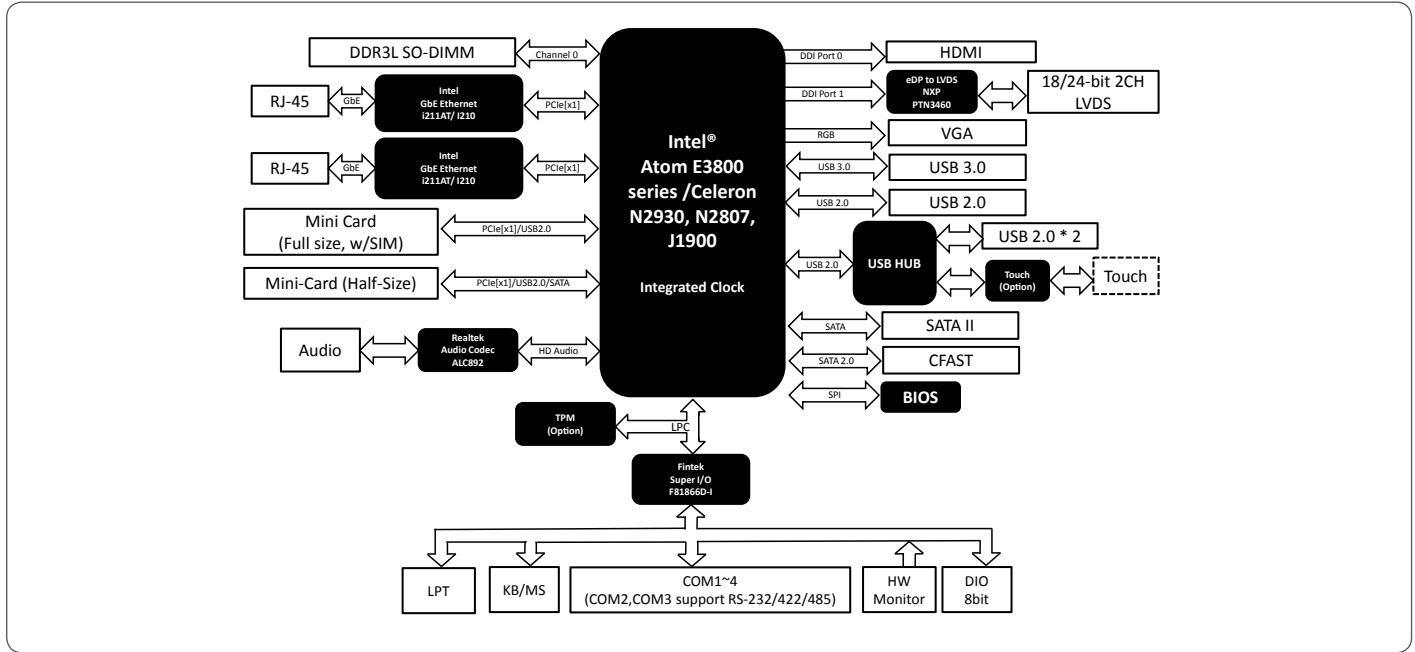
Part Number	Description	QTY
1700050207	(TF)USB CABLE.1*5P Pitch=1.25mm Housinh.20cm.for PFM-945C	2
1701090150	(TF)Flat Cable.D-Sub 9(M).9P Housing.9P 1.25mm pitch Housing.15cm	3
1709100254	(TF)PHONE JACK Cable.3P AUDIO JACK.1*10P 1.25mm HOUSING(F).25cm	1
1709070500	(TF)SATA CABLE.7P Pitch 1.27mm.50cm	1
1701260200	(TF)Flat Cable.25P D-SUB FEMALE.26P 2.00mm Pitch Housing.20cm	1
170204010R	(TF)Power Cable.Double 4P 5.08mm Housing(M).10cm	1
1702150155	(TF)Power Cable.15P SATA(F).2P 2.0mm Housing(PH).15cm	1
170220020B	(TF)Power Cable.20P ATX(M).4P 5.08mm Housing(F).+3P 2.5mm Housing(XH).20cm	1
1700060157	(TF)Cable.6P 2.0mm Housing.6P JACK W/SCREW KB&MS.15cm	1

• PER-S001

Half-size mSATA 8G w/ Android image for GENE-BT05 standard version.

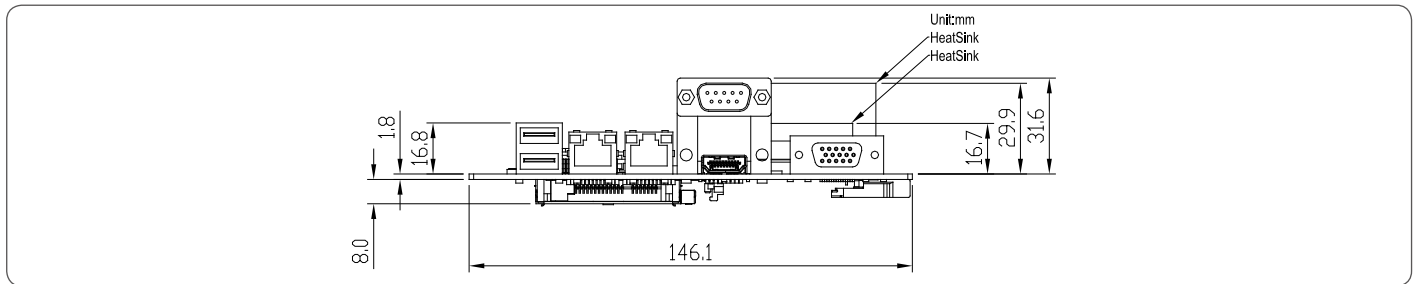
GENE-BT05

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fan-less	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp	Others
GENE-BT05-A10-0001	Intel® Celeron® N2930	Fanless	CRT + LVDS, LVDS + HDMI, HDMI + CRT	24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 2 (Full-Size x 1, Half-Size x 1)	+12V, AT/ ATX	0°C ~ 60°C	TPM, Touch, SIM, DIO x 8
GENE-BT05-A10-0002	Intel® Celeron® N2930	Fanless	CRT + LVDS	24b, 2CH	SATA x 1 mSATA x 1 (Half-size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 1 (Full-Size)	+12V, AT/ ATX	0°C ~ 60°C	DIO x 8
GENE-BT05-A10-0003	Intel® Celeron® N2807	Fanless	CRT + LVDS, LVDS + HDMI, HDMI + CRT	24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 2 (Full-Size x 1, Half-Size x 1)	+12V, AT/ ATX	0°C ~ 60°C	TPM, Touch, SIM, DIO x 8
GENE-BT05-A10-0004	Intel® Celeron® N2807	Fanless	CRT + LVDS	24b, 2CH	SATA x 1 mSATA x 1 (Half-size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 1 (Full-Size)	+12V, AT/ ATX	0°C ~ 60°C	DIO x 8
GENE-BT05-A10-0005	Intel® Atom™ E3845	Fanless	CRT + LVDS, LVDS + HDMI, HDMI + CRT	24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 2 (Full-Size x 1, Half-Size x 1)	+12V, AT/ ATX	0°C ~ 60°C	TPM, Touch, SIM, DIO x 8
GENE-BT05-A10-0006	Intel® Atom™ E3845	Fanless	CRT + LVDS	24b, 2CH	SATA x 1 mSATA x 1 (Half-size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 1 (Full-Size)	+12V, AT/ ATX	0°C ~ 60°C	DIO x 8
GENE-BT05-A10-0007	Intel® Atom™ E3825	Fanless	CRT + LVDS, LVDS + HDMI, HDMI + CRT	24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 2 (Full-Size x 1, Half-Size x 1)	+12V, AT/ ATX	0°C ~ 60°C	TPM, Touch, SIM, DIO x 8
GENE-BT05-A10-0008	Intel® Atom™ E3825	Fanless	CRT + LVDS	24b, 2CH	SATA x 1 mSATA x 1 (Half-size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 1 (Full-Size)	+12V, AT/ ATX	0°C ~ 60°C	DIO x 8
GENE-BT05-A10-0009	Intel® Celeron® J1900	Fanless	CRT + LVDS, LVDS + HDMI, HDMI + CRT	24b, 2CH	SATA x 1 CFast™ x 1	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 2 (Full-Size x 1, Half-Size x 1)	+12V, AT/ ATX	0°C ~ 60°C	TPM, Touch, SIM, DIO x 8
GENE-BT05-A10-0010	Intel® Celeron® J1900	Fanless	CRT + LVDS	24b, 2CH	SATA x 1 mSATA x 1 (Half-size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini-Card x 1 (Full-Size)	+12V, AT/ ATX	0°C ~ 60°C	DIO x 8
GENE-BT05W2-A10-0008	Intel® Atom™ E3825	Fanless	CRT + LVDS	24bit, 2CH	SATA x 1 mSATA x 1 (Half Size)	GbE x 2	USB3.0 x 1 USB2.0 x 3	2	2	Mini Card x 1 (Full-Size)	+12V, AT/ ATX	WITAS 2 (-40°C ~ 85°C)	DIO x 8