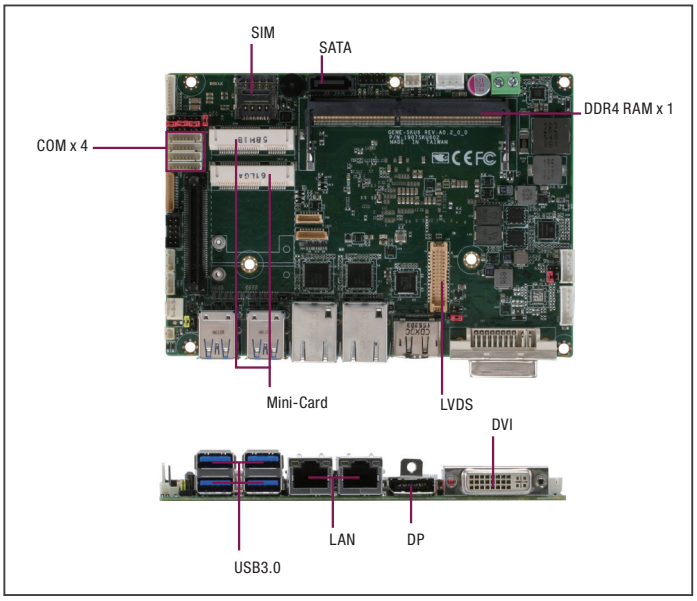
3.5” SubCompact Board with Intel® Core™ i7/i5/i3/Celeron® Processor SoC

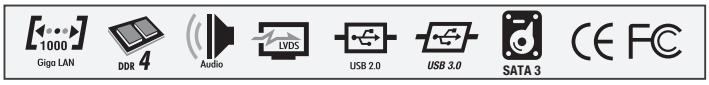


Features

- Intel® Core™ i7/i5/i3/Celeron® Processor SoC
- DDR4 1866/2133, SODIMM x 1
- DVI, DP, 18/24-bit Dual-Channel LVDS
- 2 CH Audio
- SATA 6.0 Gb/s x 1 & mSATA (Shared with Half-size Mini-Card and Selected by BIOS)
- Supports 8-bit Digital I/O, USB 2.0 x 2 , USB 3.0 x 4
- COM x 4 (RS-232 x 1, RS-232/422/485 x 3)
- Mini-Card Slot x 1 (Full size), TPM, SIM
- Wide DC Support 9~36V, +12V Only (Optional)
- 4/5/8-wire Resistive Touch Screen Controller
- BIO Connector for Daughter Board
- Solder Design for System Assembly and Thermal

Specifications

System	
Form Factor	3.5'' SubCompact Board
CPU	6th Generation Intel® Core™ i7-6600U/i5-6300U Processor SoC
CPU Frequency	Up to 3.0GHz
Chipset	6th Generation Intel® Core™ i7-6600U/i5-6300U Processor SoC
Memory Type	DDR4 1866/2133, SODIMM x1
Max. Memory Capacity	Up to 16 GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+9~36V or +12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	Intel® i7-6600U, DDR4 2133MHz 16GB, 1.75A@ +12V
Dimension (L x W)	5.75" x 4" (146mm x 101.7mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 81°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	123,000
Certification	CE/FCC
Display	
VGA/LCD Controller	6th Generation Intel® Core™ Processor SoC
Video Output	DVI-I, LVDS, DP (DP colay with VGA, default DP)
Backlight inverter supply	Yes
I/O	
Ethernet	Intel® i210/i211, 10/100/1000Base-TX, RJ-45 x 2
Audio	High Definition Audio Interface
USB Port	USB 3.0 x 4 USB 2.0 x 2
Serial Port	RS-232 x 1 , RS-232/422/485 x 3
Parallel Port	—
HDD Interface	SATA 3.0 x 1 +5V SATA power connector x 1
FDD Interface	—
SSD	mSATA (Shared with Half-size Mini-Card and Selected by BIOS)
Expansion Slot	BIO x 1 Mini-Card x 2 and default is mSATA x 1 (Half-size), Mini-Card x 1 (Full-size)
DIO	8-bit
SIM	x 1
TPM	TPM2.0
Touch	x 1



Packing List

- Product DVD
- GENE-SKU6 with Heatspreader

Optional Accessories

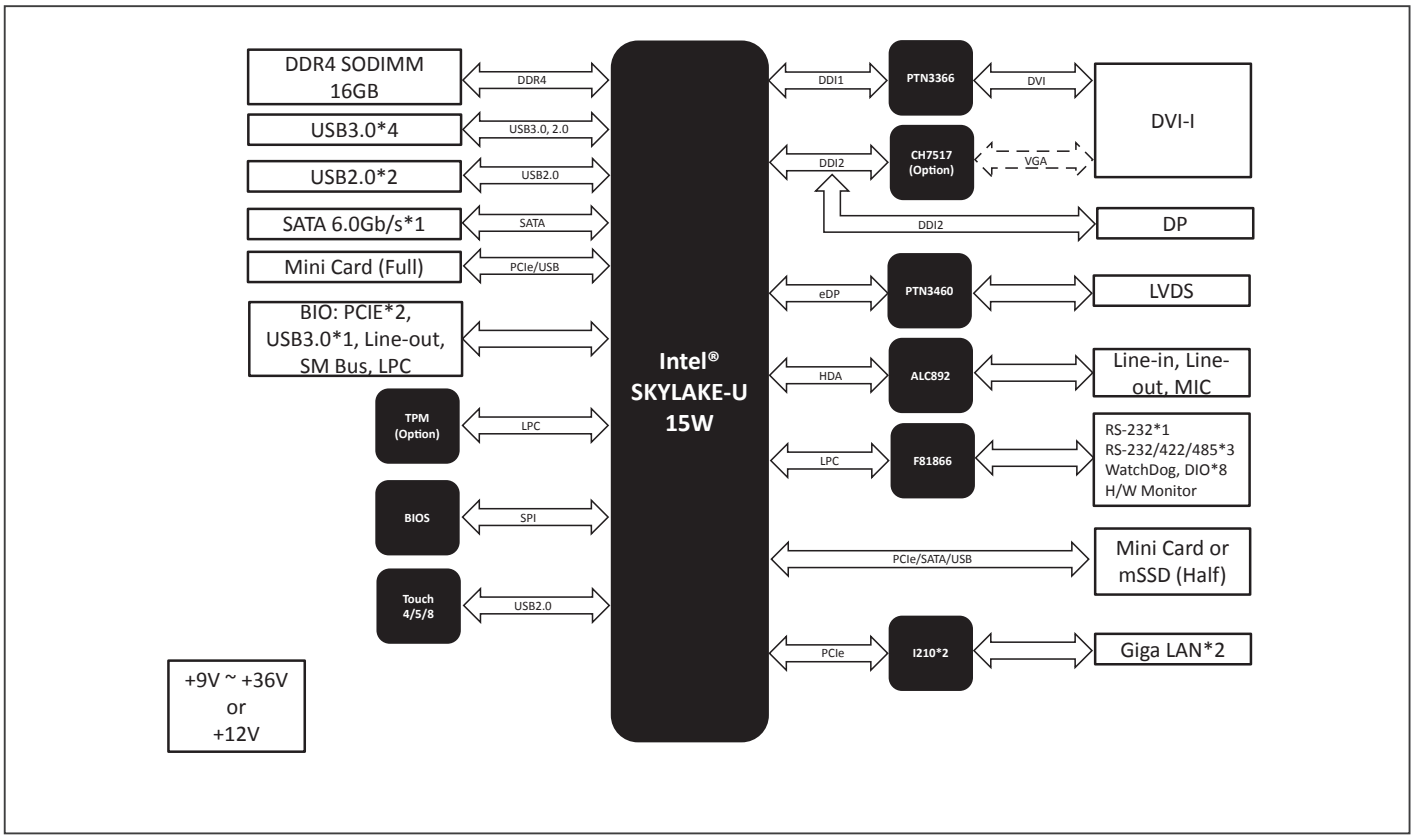
Part Number	Description	QTY
1700050207	(TF)USB CABLE.1*5P Pitch=1.25mm Housinh.20cm.for PFM-945C	2
1701090150	(TF)Flat Cable.D-Sub 9(M).9P Housing.9P 1.25mm pitch Housing.15cm	4
1709100254	(TF)PHONE JACK Cable.3P AUDIO JACK.1*10P 1.25mm HOUSING(F).25cm	1
1702150155	(TF)Power Cable.15P SATA(F).2P 2.0mm Housing(PH).15cm	1
170220020B	(TF)Power Cable.20P ATX(M).4P 5.08mm Housing(F).+3P 2.5mm Housing(XH).20cm	1
1702002010	(TF)Power CABLE.1*2P Pitch=5.0mm Housing.10cm.for PFM-945C.(12V only)	1
GENE-SKU6-FAN01	CPU Cooler, 3P, 5000RPM, A1.0, REV. A1.0	1
GENE-SKU6-HSK01	Al, Heatsink, 146 x 80 x 14mm, Silver, REV. A1.0	1
GENE-SKU6-HSK02	Heatsink, 146 x 101.6 x 29mm, Silver, for GENE-SKU6	1
GENE-SKU6-HSK03	Heat Sink.72*28*10mm.GENE-SKU6.SODIMM DDR4	1

OS Support Chart

CPU	Base Frequency/ Turbo Boost GHz	Core/ Thread	Last Level Cache	TDP	Graphic
i7-6600U	2.6/3.4	2/4	4M	15W	GT2 - 520
i5-6300U	2.4/3.0	2/4	3M	15W	GT2 - 520
i3-6100U	2.3	2/4	3M	15W	GT2 - 520
C-3955U	2	2/2	2M	15W	GT1 - 510

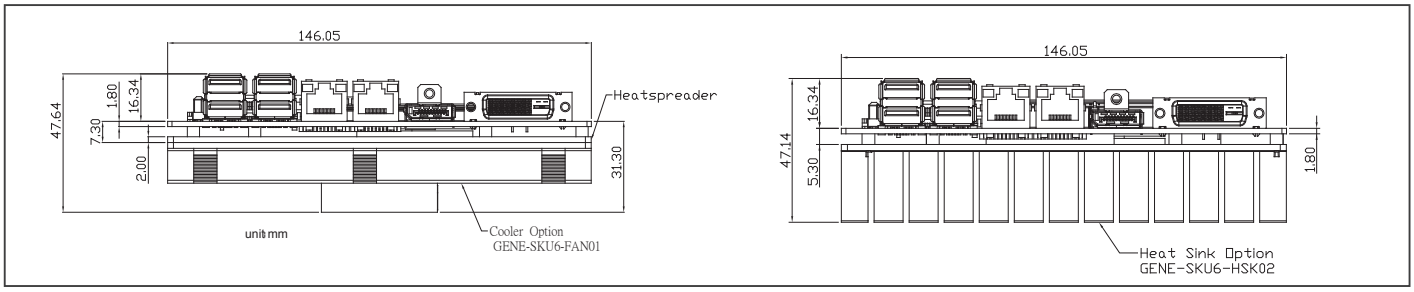
Note: All specifications are subject to change without notice.

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Fan/Fanless	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
GENE-SKU6-A10-0001	Intel® i5-6300U	Fanless	DVI + LVDS + DP	18/24-bit, 2CH	SATA x 1 mSATA x 1	GbE x 2	USB 3.0 x 4 USB 2.0 x 2	1	3	MiniCard x 1 (Full-size)	9~36V	0°C ~ 60°C	DIO x 8, SIM, Touch Controller, TPM
GENE-SKU6-A10-0002	Intel® i7-6600U	Fanless	DVI + LVDS + DP	18/24-bit, 2CH	SATA x 1 mSATA x 1	GbE x 2	USB 3.0 x 4 USB 2.0 x 2	1	3	MiniCard x 1 (Full-size)	9~36V	0°C ~ 60°C	DIO x 8, SIM, Touch Controller, TPM
GENE-SKU6W1-A10-0002	Intel® i7-6600U	Fanless	DVI + LVDS + DP	18/24-bit, 2CH	SATA x 1 mSATA x 1	GbE x 2	USB 3.0 x 4 USB 2.0 x 2	1	3	MiniCard x 1 (Full-size)	9~36V	-20°C ~ 70°C	DIO x 8, SIM, Touch Controller, TPM
GENE-SKU6-A10-0003	Intel® i3-6100U	Fanless	DVI + LVDS + DP	18/24-bit, 2CH	SATA x 1 mSATA x 1	GbE x 2	USB 3.0 x 4 USB 2.0 x 2	1	3	MiniCard x 1 (Full-size)	9~36V	0°C ~ 60°C	DIO x 8, SIM, Touch Controller, TPM