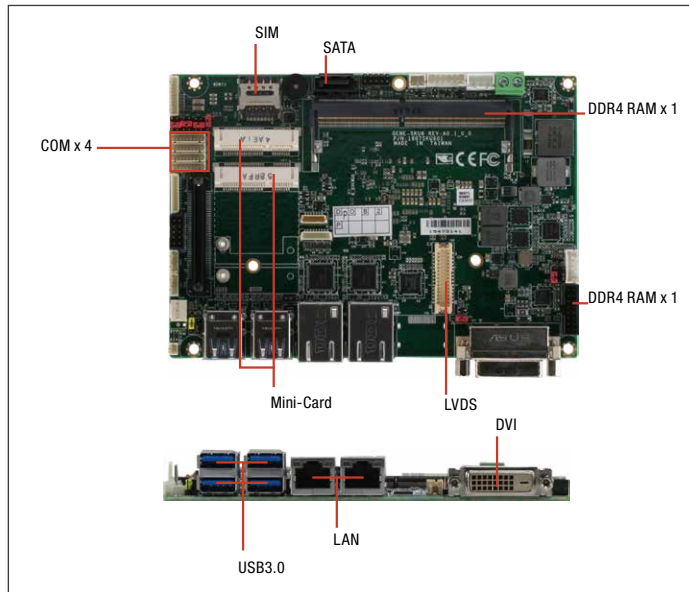


3.5" SubCompact Board with Intel® Core™ i7/i5/i3/Celeron® Processor SoC



Features

- Intel® Core™ i7/i5/i3/Celeron® Processor SoC
- DDR4 1866/2133, SODIMM x 1
- DVI, CRT/DP, 18/24-bit Dual-Channel LVDS/eDP
- 2 CH Audio
- SATA III x 1 & mSATA (Half-size)
- Support 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
- 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	Intel® Skylake-U Processor SoC
CPU Frequency	Up to 2.4/3.0 GHz
Chipset	Intel® Skylake-U Processor SoC
Memory Type	DDR4 1866/2133, SODIMM x1
Max. Memory Capacity	Up to 8GB
BIOS	UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+9~36V or +12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	—
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)	TBD
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Skylake-U Processor SoC
Video Output	DVI-I+LVDS, DVI-I + CRT, DVI-I+eDP, CRT+LVDS, CRT+eDP, DP+LVDS
Backlight inverter supply	Up to 24-bit dual-channel LVDS x 2
I/O	
Ethernet	Intel® i210, 10/100/1000Base, RJ 45 x2 (Support EtherCAT)
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	SPP/EPP/ECP x 1 (Option, share with DIO)
HDD Interface	SATA 3.0 x 1 +5V SATA power connector x 1
FDD Interface	—
SSD	mSATA (share with half-size Mini-Card and selective by BIOS)
Expansion Slot	1. BIO x 1 2. Mini-Card x 2 and default is 2.1. mSATA x 1 (half-size) 2.2. Mini-Card x 1(Full-size)
DIO	8 Bit
TPM	x 1
Touch	x 1



Packing List

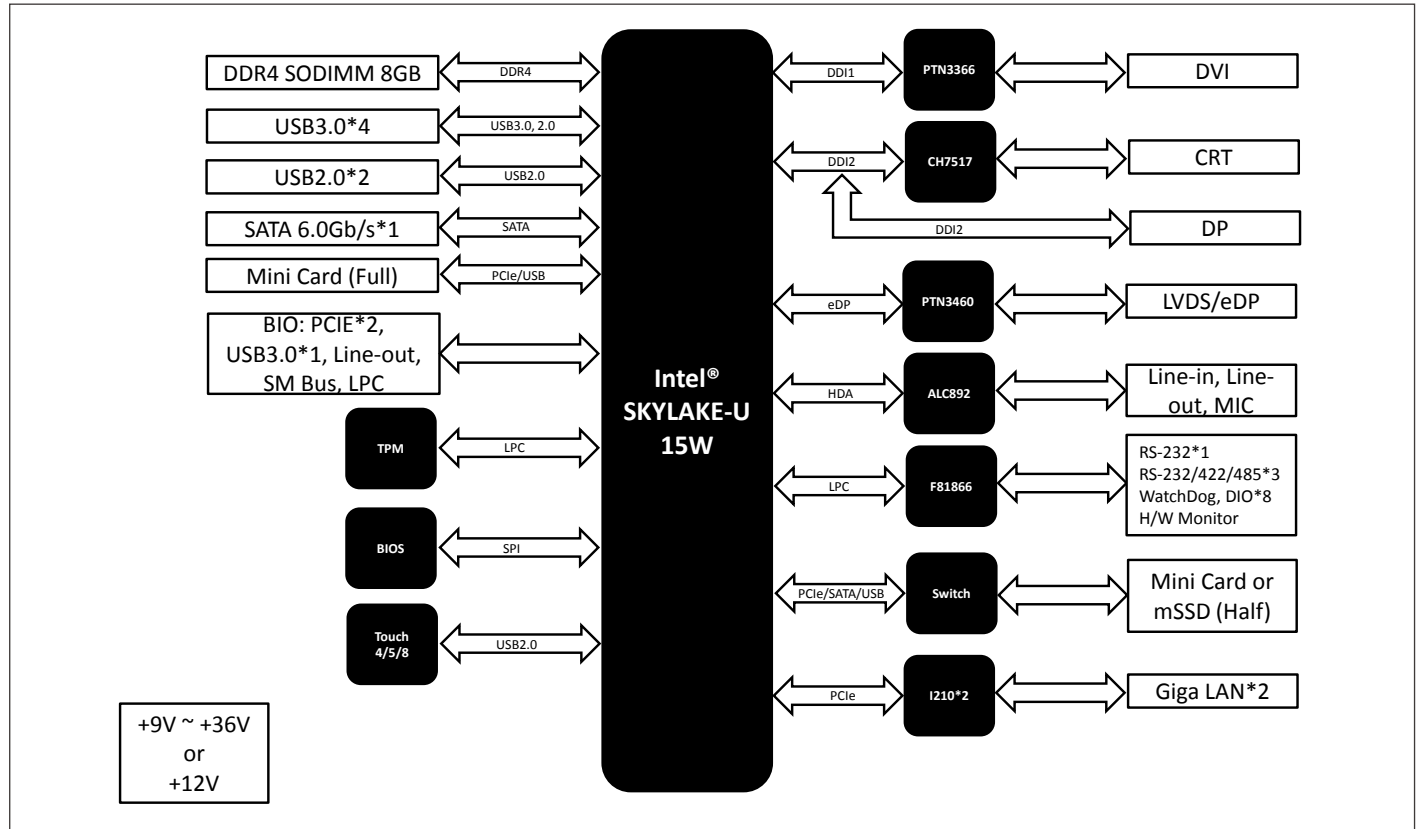
- Product DVD
- GENE-SKU6 with Heatspreader

Optional Accessories

- TBD

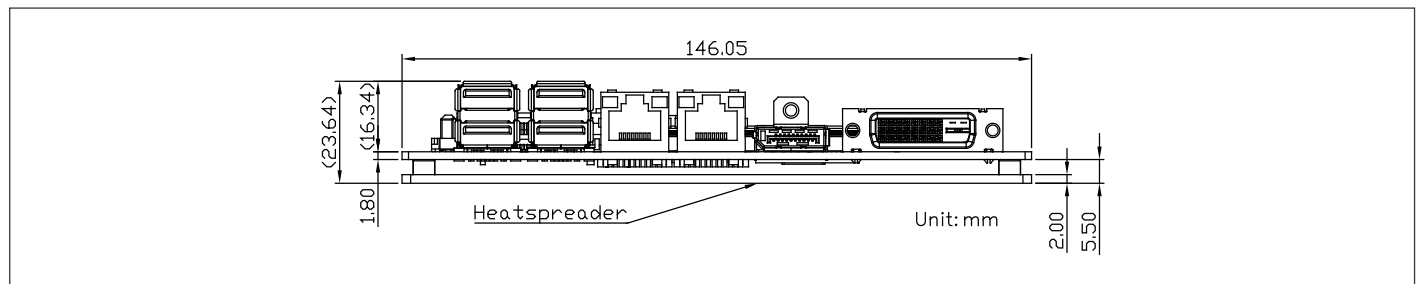
GENE-SKU6

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® i7-6600U	Fan	DVI-I+LVDS, DVI-I + CRT, DVI-I+eDP, CRT+LVDS, CRT+eDP, DP+LVDS	18/24-bit, 2CH	SATA x 1	GbE x 2	"USB 3.0 x 4 USB 2.0 x 2"	1	3	Mini-Card x 1 (Full-size)	9~36V	0°C ~ 60°C	DIO x 8, TPM, SIM, Touch Controller