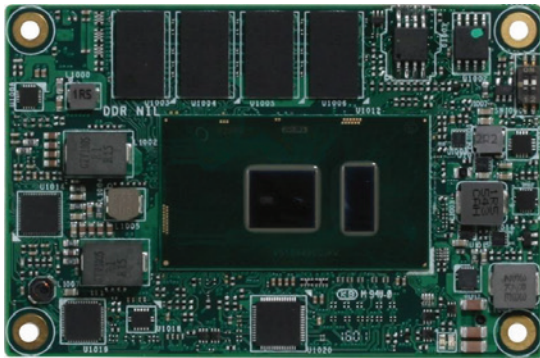
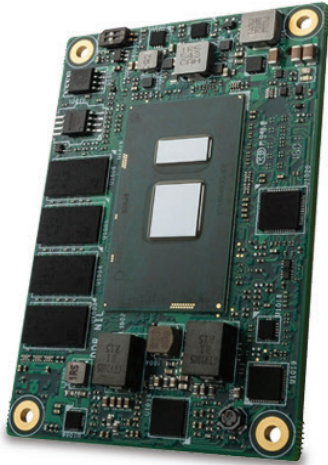


Onyx Single Board Computer Unit

# NanoCom-SKU

COM Express Type 10 with Intel® 6th Gen Core™ ULT Series CPU



## Features

- Intel® Core™ iX-6xxxU Series SOC
- Onboard 4GB DDR4 Memory
- Gigabit Ethernet x 1
- 18/24-bit Single-Channel LVDS LCDs/eDP, DDI x 1
- High Definition Audio Interface
- SATA x 2
- USB3.0 x 2, USB2.0 x 8
- PCI-Express [x1] x 4
- GPIO x 8, SMBus, I2C, LPC
- COM Express Mini size, Type 10, 84mm x 55mm

## Specifications

### Main Specifications

Processor	Intel® 6th Gen U series CPU upto i7-6600U
Form Factor	COM Express Mini size 84mm x 55mm
System Memory	4GB DDR4
Chipset	Intel® SOC
Expansion Interface	PCIe [x1] x 4, I2C, LPC, SMBus, GPIO
BIOS	AMI BIOS, Legacy free BIOS
Wake on LAN	Yes
Watchdog Timer	ITE IT8528VG

### I/O

USB	USB3.0 x 2, USB2.0 x 8
Serial Port	2-wire UART x 2 ( TX/RX)
Ethernet	Intel® I219 GbE
Storage	SATA 6.0 Gb/s x 2
Audio	HD Audio x 1
GPIO	8 bit
H/W Status Monitoring	Support CPU temperature monitoring
Chipset	SoC, GT2,
Graphic Engine	LVDS/eDP, DDI x1
LVDS Interface	Supports 18bit and 24bit Single channel

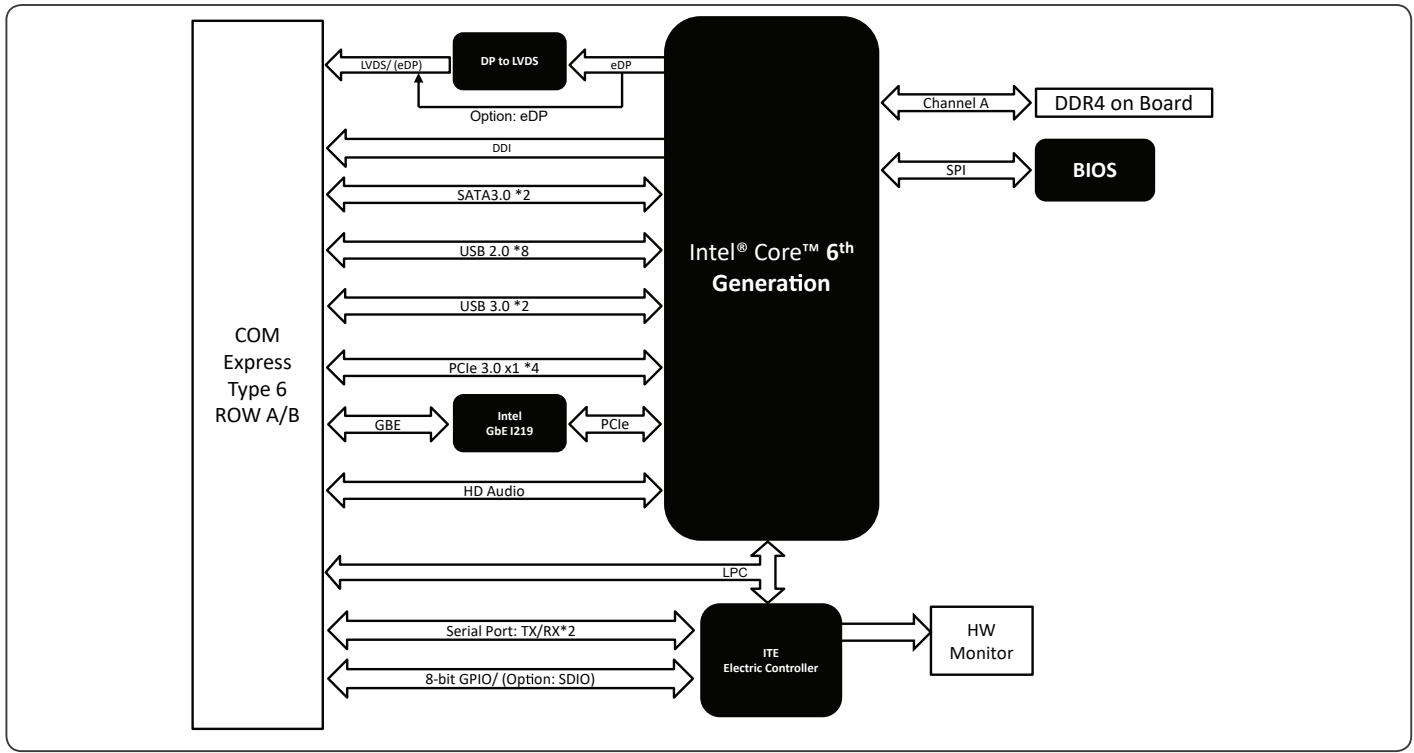
### Mechanical and Environmental

Power Requirement	Normal: +12V
Power Consumption	i7-6600U 12V@1.5A, i3-6100U 12V@1.42A. Under 100% loading. CPU Set to 15W TDP. CPU base frequency may change accordingly.
Operating Humidity	0% ~ 90% relative humidity, noncondensing
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Dimensions(W x D x H)	84mm x 55mm
MTBF (Hours)	80,000

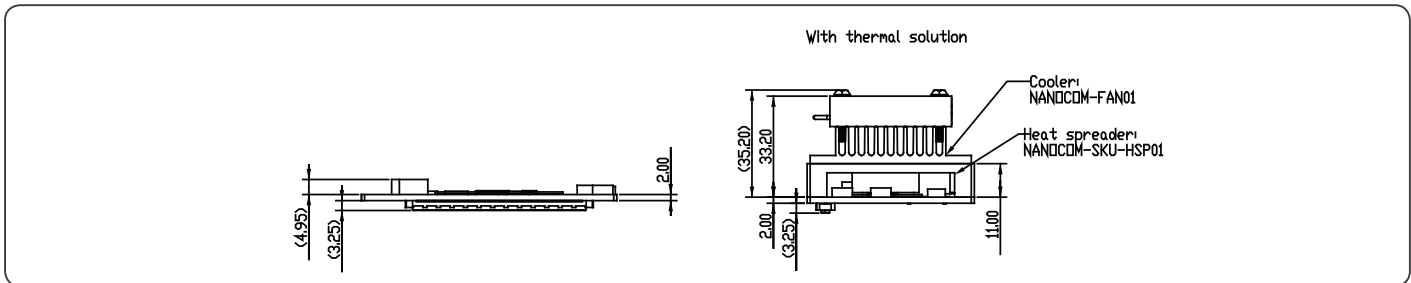
# NanoCOM-SKU

COM Express Type 10 with Intel® 6th Gen Core™ ULT Series CPU

## Block Diagram



## Dimension / Unit: mm



## Ordering Information

Standard Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Power Temp	Others
NANOCOM-SKU-A10-0001	10 (COM.0 Rev 2.1)	6th Gen. Intel® Core™ i7-6600U 2c/2.6GHz	4GB DDR4	LVDS/(eDP), DDI x1	18/24b 1CH (LVDS share with eDP)	SATA x2	GbE x1	USB3.0 x2 USB2.0 x8	2 (Tx/Rx)	PCI-E[x1] x4	12V	0°C~60°C	I2C, SMBus, 8b-GPIO/(SDIO)
NANOCOM-SKU-A10-0003	10 (COM.0 Rev 2.1)	6th Gen. Intel® Core™ i3-6100U 2c/2.3GHz	4GB DDR4	LVDS/(eDP), DDI x1	18/24b 1CH (LVDS share with eDP)	SATA x2	GbE x1	USB3.0 x2 USB2.0 x8	2 (Tx/Rx)	PCI-E[x1] x4	12V	0°C~60°C	I2C, SMBus, 8b-GPIO/(SDIO)