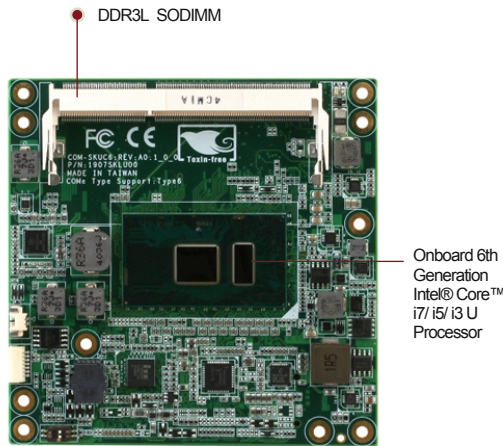
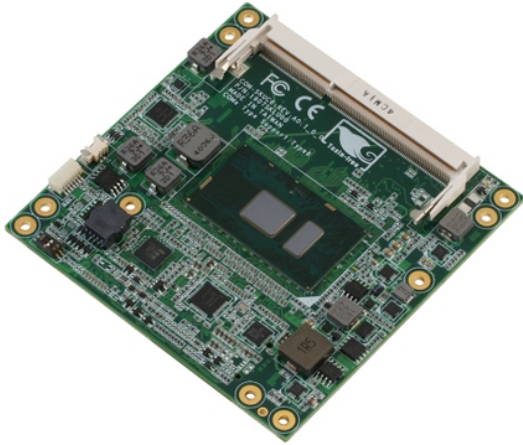


Onyx Single Board Computer Unit

COM-SKUC6

COM Express Type 6 Compact Size with 6th Gen Core U-series Processor



Features

- 6th Gen. Intel® Core™ i7/i5/i3-6xxx Series Processor SoC
- DDR3L SODIMM x 1, up to 8 GB, non-ECC only
- Gigabit Ethernet x 1
- 18/24-bit Dual-Channel LVDS, LCD/eDP, DDI x 2 (1 Sharded to VGA), High Definition Audio Interface
- SATA x 3
- USB2.0 x 8, USB3.0 x 4, GPIO 8-bit, PCI-Express [x1] x 8
- COM Express Type 6 Compact Size 95mm x 95mm

Specifications

Main Specifications

Processor	Onboard 6th Gen Intel® Core™ U-series Processor, BGA type
Form Factor	COM Express Compact Size
System Memory	SODIMM Socket, upto DDR3L 8GB 1600
Chipset	Onboard 6th Gen Intel® Core™ U-series Processor
Expansion Interface	PCIe[x1] x 8, I2C x1, LPC x1, SMBus x1
BIOS	AMI BIOS, Legacy free BIOS
Wake on LAN	Yes
Watchdog Timer	255 levels

I/O

USB	USB3.0 x 4, USB2.0 x 8
Serial Port	2-Wire UART (Tx/Rx) x2
Ethernet	Intel I219, Gigabit Ethernet
Storage	SATA x 4
Audio	HD Audio x 1
VGA/LCD Controller	Onboard 6th Gen Intel® Core™ U-series Processor, GT2/GT1
Video Output	VGA, LVDS/eDP, DDI x 1 (up to 2)
DIO	GPIO 8-bit
TPM	optional

Mechanical and Environmental

Power Requirement	Normal: +12V, AT/ATX Selection
Power Consumption	Intel i3-6100U 2.3GHz, 8GB DDR3L 1A@12V
Operating Humidity	10% ~90% relative humidity, non-condensing
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)	3.75in x 3.75in (95mm x 95mm)
MTBF (Hours)	80,000
Certification	CE/FCC Class A

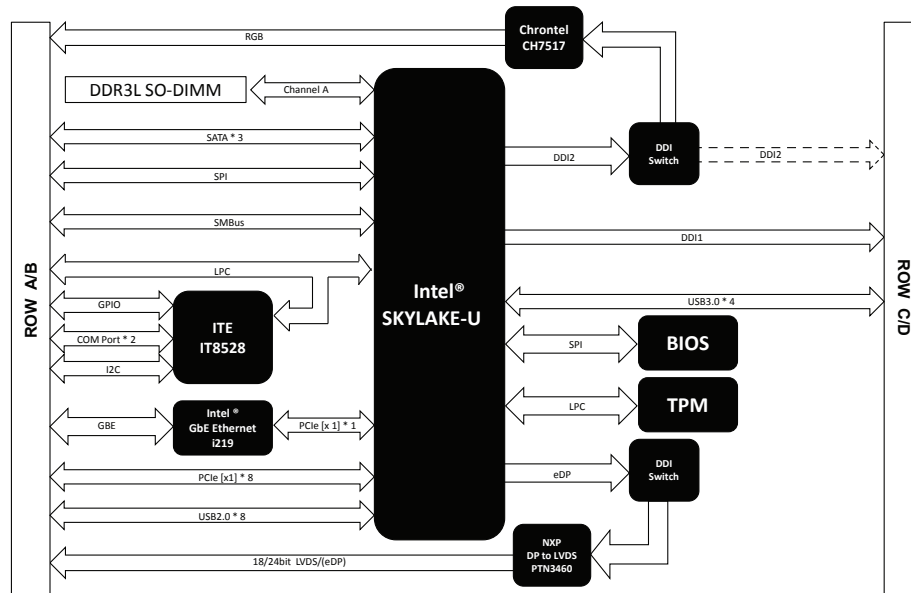
HSIO Configurable Options

PCIe No.	Config 1 (Default)	Config 2	Config 3	Config 4
PCIe#0	PCIe[x1]	PCIe[x1]	PCIe[x4]	PCIe[x4]
PCIe#1	PCIe[x1]	PCIe[x1]		
PCIe#2	PCIe[x1]	PCIe[x1]		
PCIe#3	X	PCIe[x1]		
PCIe#4	X	X	PCIe[x1]	PCIe[x1]
PCIe#5	X	X	PCIe[x1]	PCIe[x1]
PCIe#6	X	X	X	PCIe[x1]
PCIe#7	X	X	X	X
GbE	GbE	GbE	GbE	GbE
SATA#0	SATA#0	SATA#0	SATA#0	SATA#0
SATA#1	SATA#1	X	SATA#1	X
Remark	6 Device 6 Lanes	6 Device 6 Lanes	6 Device 9 Lanes	6 Device 9 Lanes

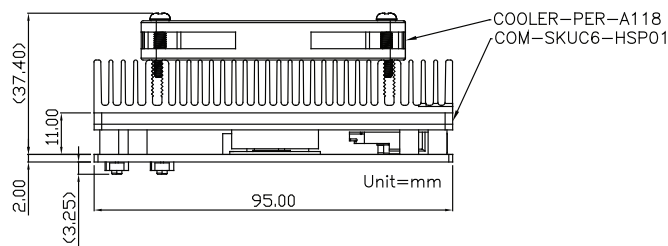
COM-SKUC6

COM Express Type 6 Compact Size with 6th Gen Core U-series Processor

Block Diagram



Dimension



Ordering Information

Part Number	Form Factor	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion	Power	Temperature	Other
COM-SKUC6-A10-0001	COM Express Type 6	i7-6600U, 2.6/3.4GHz	DDR3L up to 8GB SODIMM x 1	CRT, LVDS/eDP, DDI x2	24bit, 2CH	SATA x3	GbE x 1	USB3.0 x 4, USB2.0 x 8	2-wire (Tx/Rx) x 2	PCIe[x1] x 8	+12V (ATX)	0°C – 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
COM-SKUC6-A10-0002	COM Express Type 6	i5-6300U, 2.4/3.0GHz	DDR3L up to 8GB SODIMM x 1	CRT, LVDS/eDP, DDI x2	24bit, 2CH	SATA x3	GbE x 1	USB3.0 x 4, USB2.0 x 8	2-wire (Tx/Rx) x 2	PCIe[x1] x 8	+12V (ATX)	0°C – 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
COM-SKUC6-A10-0003	COM Express Type 6	i3-6100U, 2.3GHz	DDR3L up to 8GB SODIMM x 1	CRT, LVDS/eDP, DDI x2	24bit, 2CH	SATA x2	GbE x 1	USB3.0 x 4, USB2.0 x 8	2-wire (Tx/Rx) x 2	PCIe[x1] x 6	+12V (ATX)	0°C – 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus