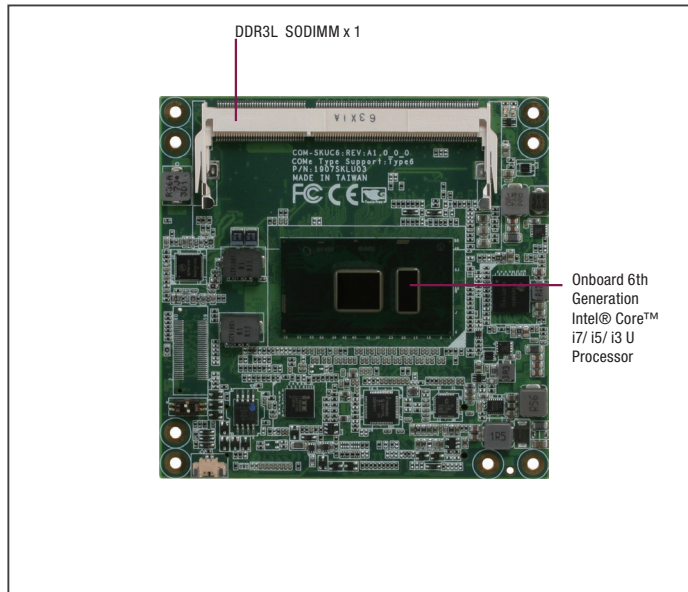


COM Express Type 6 Compact Size with 6th/7th Gen Core U-series Processor



Features

- Intel® Core™ i3/i5/i7 U-series 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 1, VGA (via DDI2), High Definition Audio Interface
- SATA x 3 (SATA Port 3 for i5 i7 sku only)
- USB 2.0 x 8, USB 3.0 x 4, GPIO 8-bit, PCI-Express Lanes x 8
- COM Express Type 6 Compact Size 95mm x 95mm

Specifications

System	
Form Factor	COM Express Compact Size
CPU	Onboard 6th/7th Generation Intel® Core™ U-series Processor, BGA type
CPU Frequency	Up to i7-7600U 2C/ 2.8 GHz
Chipset	Onboard 6th/7th Generation Intel® Core™ U-series Processor
Memory Type	DDR3L 1333/1600, SODIMM x 1
Max. Memory Capacity	8 GB
BIOS	AMI BIOS, Legacy Free
Wake on LAN	Yes
Watchdog Timer	255 levels
Power Requirement	Standard: +12V
Power Supply Type	AT/ATX Selection
Power Consumption (Typical)	i7-6600U, 4GB DDR3L; full loading 1.07A@12V during 100% loading burn in test
Dimension (L x W)	3.75in x 3.75in (95mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	10% ~90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC Class A
Display	
VGA/LCD Controller	Onboard 6th Gen Intel® Core™ U-series Processor, GT2/GT1
Video Output	VGA, LVDS/eDP, DDI x 1 (up to 2)
I/O	
Ethernet	Intel I219, Gigabit Ethernet
Audio	HD Audio
USB Port	USB 2.0 x 8, USB 3.0 x 4
Serial Port	2-Wire UART (Tx/Rx) x 2
HDD Interface	SATA x 3 (SATA Port 3 optional)
Onboard SSD	—
Expansion Slot	PCI-Express Lanes x 8, I2C, LPC, SMBus
GPIO	GPIO 8-bit
TPM	Optional



Packing List

- M2.5 Screw x 4
- COM-SKUC6 or COM-KBUC6

Optional Accessories

- **ECB-920A-A10-0001**
COM Express Type 1/6/10 Carrier Board, Gigabit Ethernet, USB, 2 COM, 4 SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0
- **COM-FAN02**
CPU Cooler, 95 x 95 x 26.5mm, Silver, use with HSP
- **COM-SKUC6-HSP01**
Heat Spreader, For COM-SKUC6, Onboard CPU

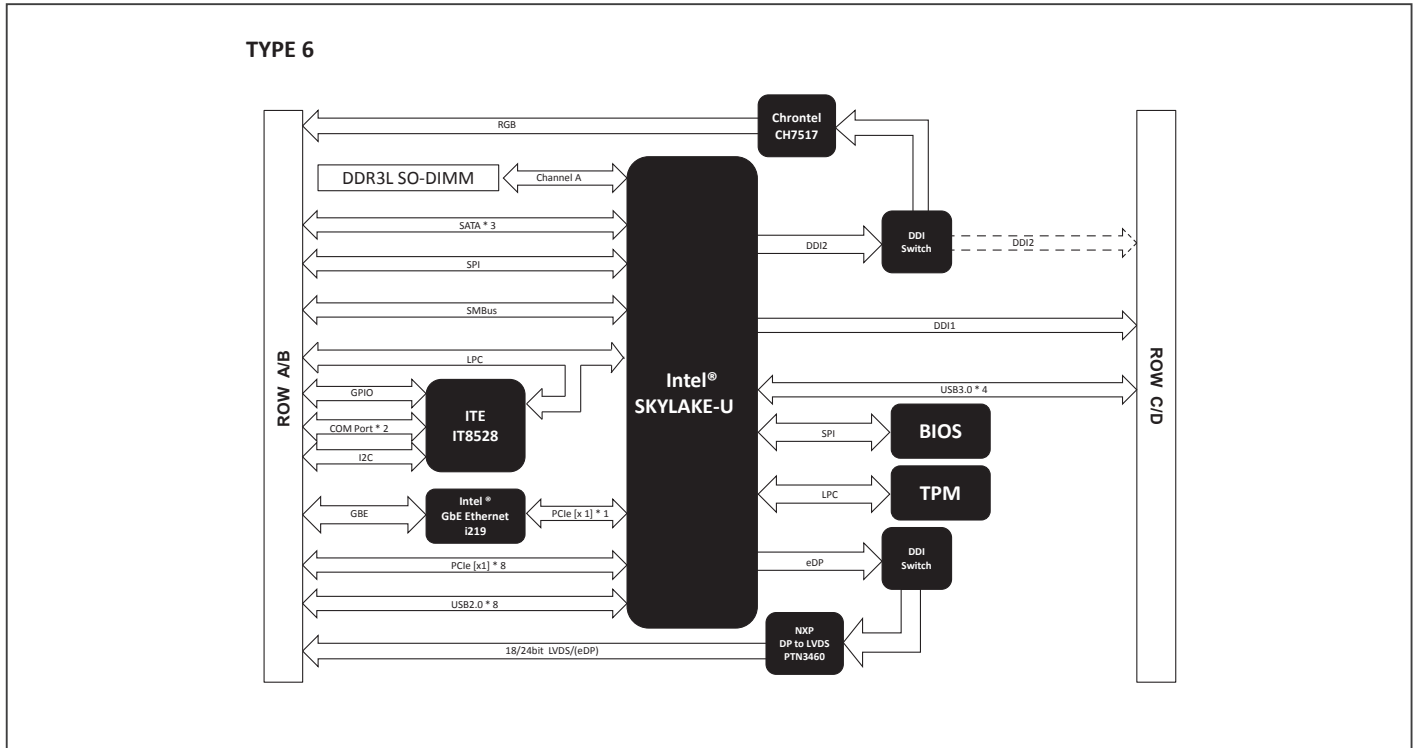
HSIO Configurable Options

PICMG PCIe No.	Config 1 (Default)	Config 2 (Custom BIOS need)
PCIe#0	PCIe[x1]	PCIe[x4]
PCIe#1	PCIe[x1]	—
PCIe#2	PCIe[x1]	—
PCIe#3	PCIe[x1]	—
PCIe#4	PCIe[x1]	PCIe[x1]
PCIe#5	x	PCIe[x1]
PCIe#6	x	PCIe[x1]
PCIe#7	x	PCIe[x1]
GbE	GbE	GbE
SATA#0	SATA#0	SATA#0
SATA#1	SATA#1	SATA#1
SATA#2	SATA#2 (i5/i7 only)	SATA#2 (i5/i7 only)
Remark	6 PCIe Devices 9 PCIe Lanes	6 PCIe Devices 12 PCIe Lanes

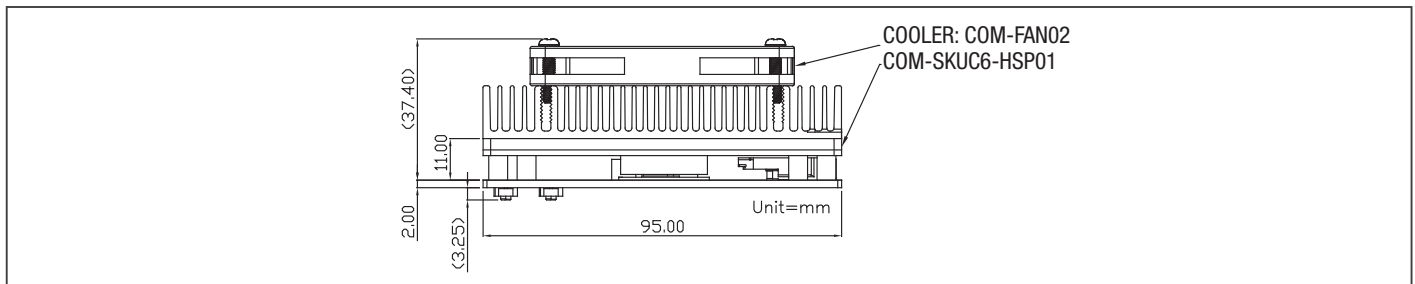
*Only a maximum of 6 PCIe port or (Devices) or 12 PCIe Lanes can be enabled at any time

**SATA#2 default disable, and only functional with i5/i7

Block Diagram Unit: mm



Dimension Unit: mm



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 x 1	24bit, 2CH	SATA x2 (up to 3)	GbE x 1	USB 3.0 x 4, USB 2.0 x 8	2-wire (Tx/Rx) x 2	PCIe Lanes 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 x 1	24bit, 2CH	SATA x 2	GbE x 1	USB 3.0 x 4, USB 2.0 x 8	2-wire (Tx/Rx) x 2	PCIe Lanes x 8	+12V (ATX)	0°C ~ 60°C	LPC, GPIO 8Bit, HDA, I2C, SMBus
COM-KBUC6-A10-0001	COM Express Type 6 (COM.0 Rev. 3.0)	7th Gen. Intel® Core™ i7-7600U, 2c/2.8GHz	DDR3L Socket, up to 8GB	CRT, LVDS/eDP, DDI x 1 (up to 2)	18/24bit, 2CH (LVDS share with eDP)	SATA x2 (3rd disable in default)	GbE x 1	USB 3.0 x 4, USB 2.0 x 8	2-wire (Tx/Rx) x 2	PCI-E[x1] x 5 (up to 8)	+12V	0°C ~ 60°C	I2C, GPIO, SMBus

CPU Supports 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
i7-7600U	2.8/3.9	2/4	4M	15W	GT2 - 520
i5-7300U	2.6/3.5	2/4	3M	15W	GT2 - 520
i3-7100U	2.4	2/4	3M	15W	GT2 - 520
C-3965U	2.2	2/2	2M	15W	GT1 - 510