

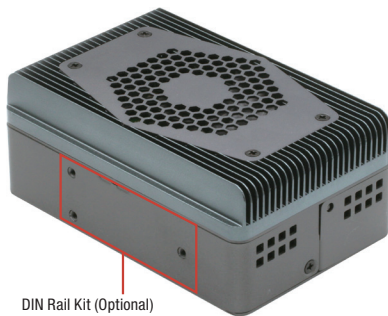
PICO-KBU4-SEMI

Pico-ITX TurnKit with 7th Generation Intel® Core™ i7/i5/i3/Celeron® U-Series Processor SoC

Front View



Rear View



DIN Rail Kit (Optional)

Features

- Extreme light system, easy to adopt everywhere
- DDR4 Non-ECC SODIMM Slot x 1, up to 16GB
- GbE x 2, HDMI x 1.4
- M.2 2242 B key for storage
- M.2 2230 E key for wireless Module
- COM x 2 (Optional)
- USB 3.2 Gen 1 x 2 (Rear IO)
- Lockable DC 12V



I/O	
Storage/SSD	M.2 2242 B key
USB Port	USB 3.2 Gen 1 x 2 (Rear IO)
Serial Port	Optional
Audio	—
Expansion Slot	RS-232 x 1, RS-232/422/485 x1 (Optional)
Certification	
Certification	CE, FCC

Packing List

- PICO-KBU4-SEMI

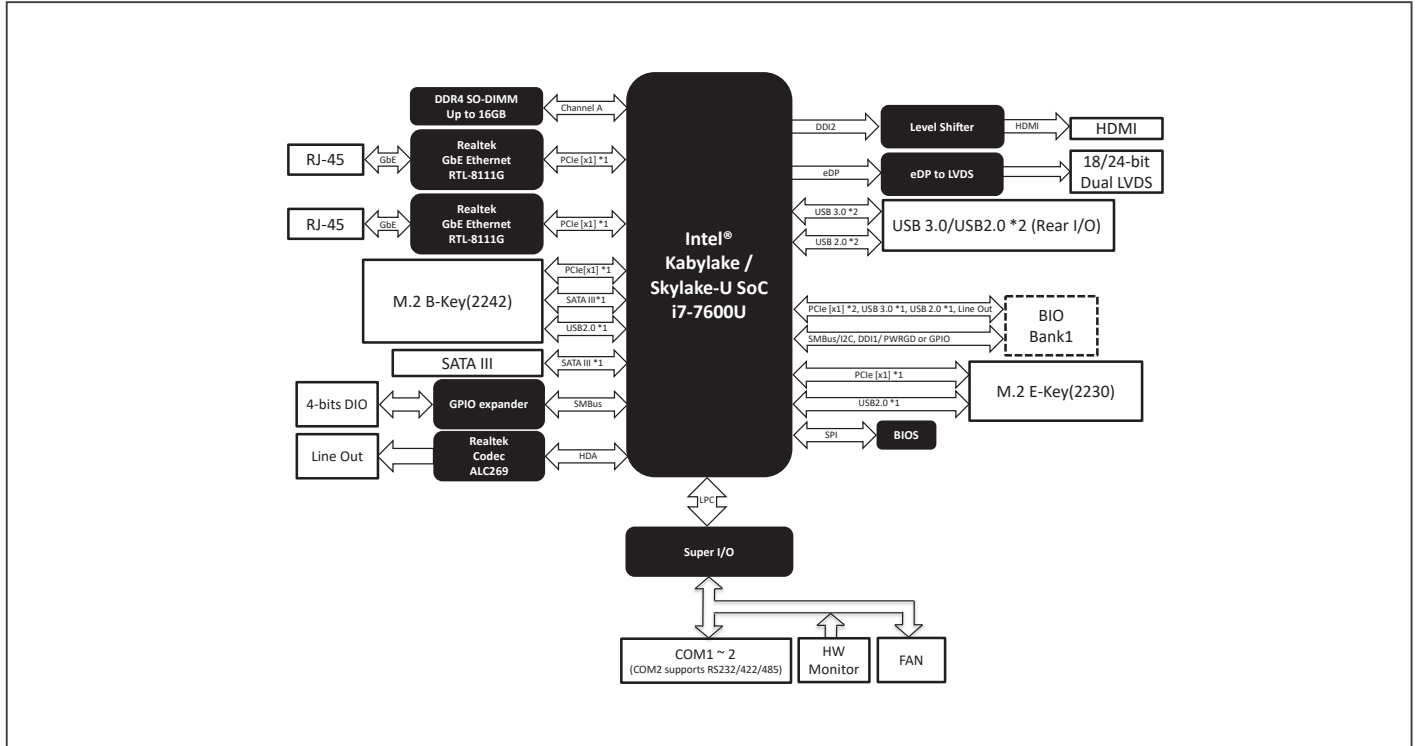
Optional Accessories

Part Number	Description	Qty.
125530040C	(TF)Power Adapter.12V.40W.FSP.FSP040-DHAN3	1
1702031802	Power Cord (US)	1
1702031803	Power Cord(European Type)	1
170203180E	Power Cord(Japan Type)	1
1701200101	(TF)SERIAL Cable.WL1010H-2*10P 1.0mm Housing.Dual DB9(M). Line-Out Jack.10cm	1
9761SEMI01	Din Rail Kit	1
9761SEMI00	Wall mount Kit	1

Specifications

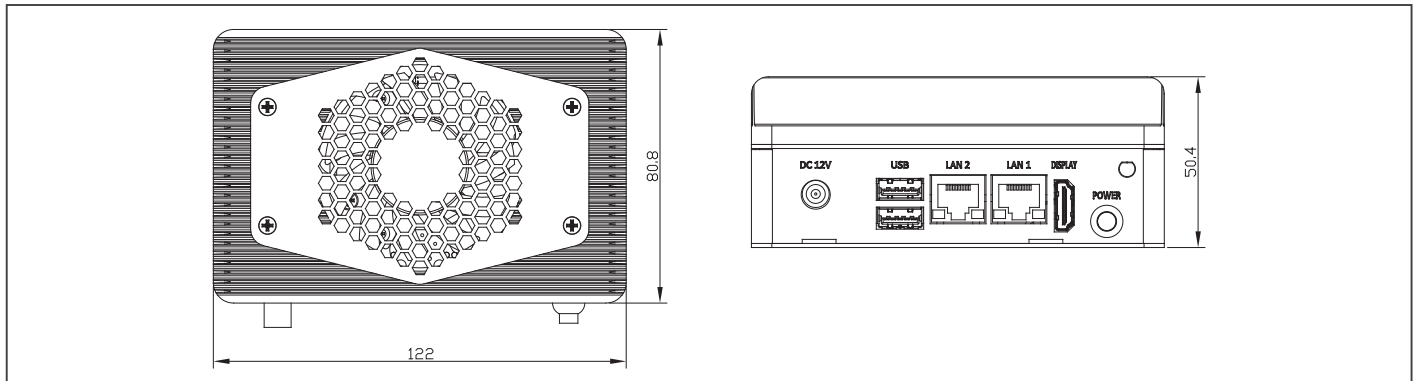
System	
Form Factor	Pico-ITX
Processor	7th Gen Intel® Core™ i processor U series
System Memory	DDR4 SODIMM Slot x 1, Up to 16 GB
Chipset	Intel® SoC
Ethernet	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2
BIOS	AMI BIOS
Wake on LAN	Yes
Watchdog Timer	255 Level
Expansion Interface	M.2 2230 E key (For WIFI/BT Module)
Power Requirement	Normal: +12V
Power Supply Type	Lockable
Power Consumption	I7-7600 @ DDR4 16GB, 12V@2.3A
System Size	4.80" x 3.18" x 1.98" (122 x 80.8 x 50.4mm)
Gross Weight	0.88 lb (0.4 kg)
Operation Temp.	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0% ~ 90% relative humidity, non-condensing
MTBF	163,000
OS support	Windows 10 (64 bit)
Display	
Chipset	Intel® SoC
Video Output	HDMI 1.4

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Power Temp	Others
PICO-KBU4-SEMI-A10-B001	Celeron 3965	DDR4 Socket	w/Cooler	HDMI x 1	SATAIII x 1 M.2 2242 (B Key) x 1	GbE x 2	USB 3.2 Gen 1 x 2 (Rear)	—	—	M.2 2230 (E Key) x 1	+12V (ATX)	0°C ~ 50°C	DIO 4 bit
PICO-KBU4-SEMI-A10-B002	i3-7100U	DDR4 Socket	w/Cooler	HDMI x 1	SATAIII x 1 M.2 2242 (B Key) x 1	GbE x 2	USB 3.2 Gen 1 x 2 (Rear)	—	—	M.2 2230 (E Key) x 1	+12V (ATX)	0°C ~ 50°C	DIO 4 bit
PICO-KBU4-SEMI-A10-B003	i5-7300U	DDR4 Socket	w/Cooler	HDMI x 1	SATAIII x 1 M.2 2242 (B Key) x 1	GbE x 2	USB 3.2 Gen 1 x 2 (Rear)	—	—	M.2 2230 (E Key) x 1	+12V (ATX)	0°C ~ 50°C	DIO 4 bit
PICO-KBU4-SEMI-A10-B004	i7-7600U	DDR4 Socket	w/Cooler	HDMI x 1	SATAIII x 1 M.2 2242 (B Key) x 1	GbE x 2	USB 3.2 Gen 1 x 2 (Rear)	—	—	M.2 2230 (E Key) x 1	+12V (ATX)	0°C ~ 50°C	DIO 4 bit
PICO-KBU4-SEMI-A10-B005 (6th Gen)	Celeron 3955	DDR4 Socket	w/Cooler	HDMI x 1	SATAIII x 1 M.2 2242 (B Key) x 1	GbE x 2	USB 3.2 Gen 1 x 2 (Rear)	—	—	M.2 2230 (E Key) x 1	+12V (ATX)	0°C ~ 50°C	DIO 4 bit