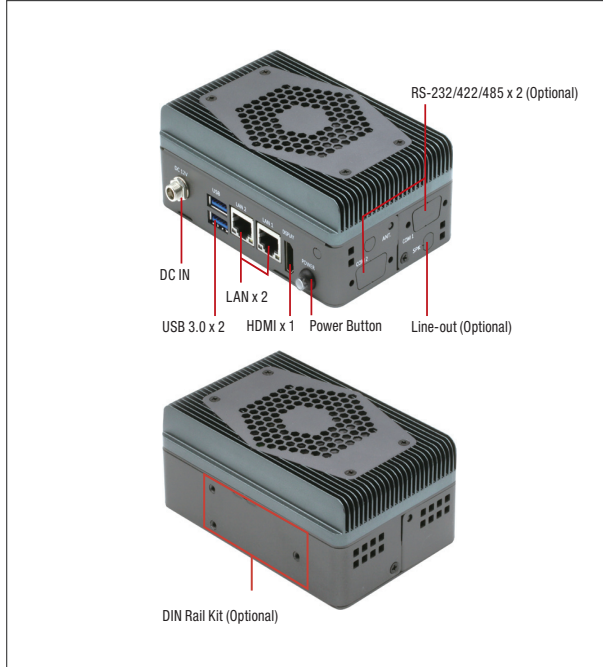


PICO-KBU4-SEMI

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

PICO-SEMI



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



SERIAL PORT	—
VIDEO	—
SATA	SATA III x 1 +5V SATA Power Connector x 1
AUDIO	Audio Header x 1 (Optional)
DIO/GPIO	4-bit (Optional)
SMBus/I2C	I2C/SMBus x1 (SMBUS as default) (Optional)
Touch	—
FAN	4pins Smart Fan x1
SIM	—
Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
Others	—
EXPANSION	
Mini PCI-E/mSATA	—
M.2	M.2 B-Key 2242 x 1 (PCIe/x1)/SATA select by BIOS M.2 E-Key 2230 x 1 (PCIe/USB)
Others	—
ENVIRONMENT & CERTIFICATION	
OPERATING TEMP	32°F ~ 122°F (0°C ~ 50°C)
STORAGE TEMP	-40°F ~ 185°F (-40°C ~ 85°C)
OPERATING HUMIDITY	0% ~ 90% relative humidity, non-condensing
MTBF (HOURS)	163,000
EMC	CE/FCC Class A

Specifications

SYSTEM	
FORM FACTOR	PICO-SEMI
CPU	Intel® 7th Generation Core™ /Celeron Processor: Intel® i7-7600U (2C/4T, 2.80GHz, up to 3.90GHz, TDP-up 25W) Intel® i5-7300U (2C/4T, 2.60GHz, up to 3.50GHz, TDP-up 25W) Intel® i3-7100U (2C/4T, 2.40GHz, TDP-up 25W) Intel® Celeron 3965U (2C/2T, 2.20GHz, TDP-up 15W)
CHIPSET	Integrated with Intel® SoC
MEMORY TYPE	DDR4 up to 2133MHz, SODIMM x 1, up to 16GB, Non-ECC
BIOS	UEFI
WAKE ON LAN	Yes
WATCHDOG TIMER	255 Levels
SECURITY	—
RTC Battery	Lithium Battery 3V/240mAh
DIMENSION	4.80" x 3.18" x 1.98" (122 mm x 80.8 mm x 50.4 mm)
Gross Weight	0.88 lb (0.4 kg)
OS Support	Windows 10 (64 bit)
POWER	
POWER REQUIREMENT	12V only
POWER SUPPLY TYPE	ATX
CONNECTOR	Lockable DC Jack Connector
POWER CONSUMPTION	Intel® i7-7600, DDR4 16GB, 2.3A@ +12V(TYPICAL)
DISPLAY	
CONTROLLER	Intel® HD Graphics 510/620
LVDS/eDP	—
Display Interface	HDMI 1.4b x 1 (up to 4096 x 2304)
Multiple Display	1 Simultaneous Display
AUDIO	
CODEC	Realtek ALC269 (Optional)
AUDIO INTERFACE	Line-out (Optional)
Speaker	—
EXTERNAL I/O	
ETHERNET	Realtek 8111 Gigabit Ethernet 10/100/1000Base, RJ-45 x 2
USB	USB 3.2 Gen 1 x 2
SERIAL PORT	COM1: RS-232 x 1 (Optional) COM2: RS-232/422/485 x 1 (Ring/ +5V/ +12V) (Optional)
VIDEO	HDMI 1.4b x 1 (up to 4096 x 2304)
INTERNAL I/O	
USB	—

Packing List

- PICO-KBU4-SEMI

Optional Accessories

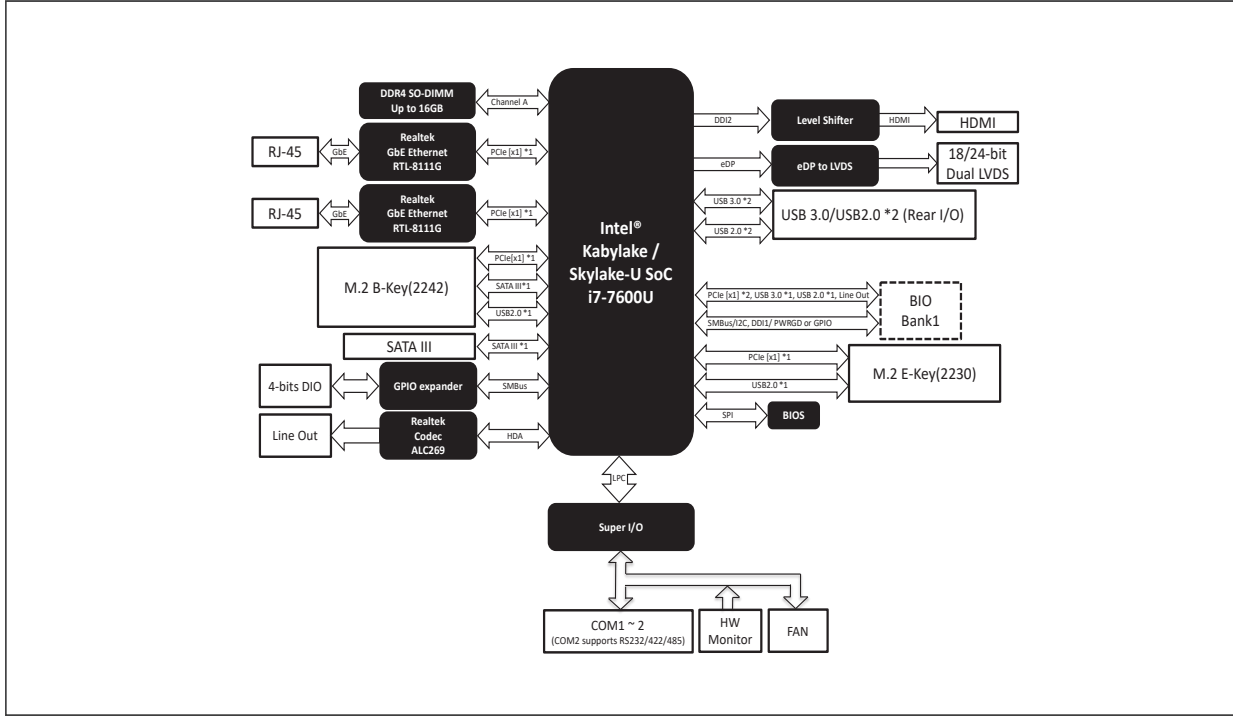
Part Number	Description	Qty.
125530040C	(TF)Power Adapter.12V.40W.FSP.FSP040-RHAN3	1
125530060Z	Power Adapter 12V/5A 60W FSP060-DHAN3	1
1702031802	Power Cord (US)	1
1702031803	Power Cord(European Type)	1
170203180E	Power Cord(Japan Type)	1
1701200101	M.2 2242 -D2-B-M.64GB.SATA3,MLC	1
9761SEMI01	Din Rail Kit	1
9761SEMI00	Wall mount Kit	1

PICO-KBU4-SEMI

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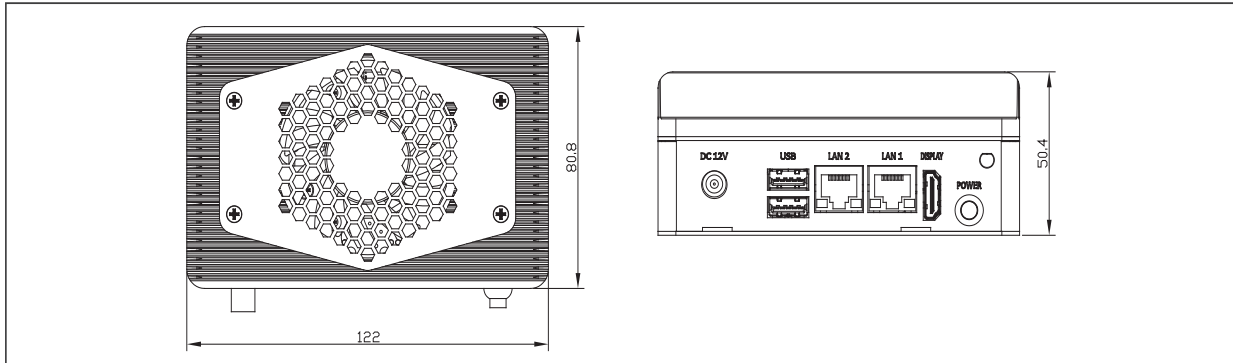
PICO-SEMI

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 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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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