

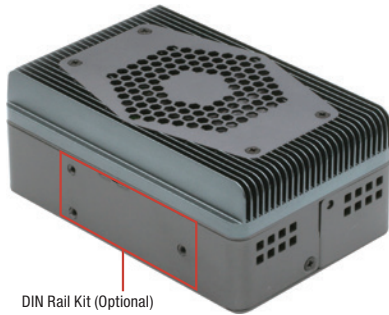
PICO-KBU4-SEMI

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

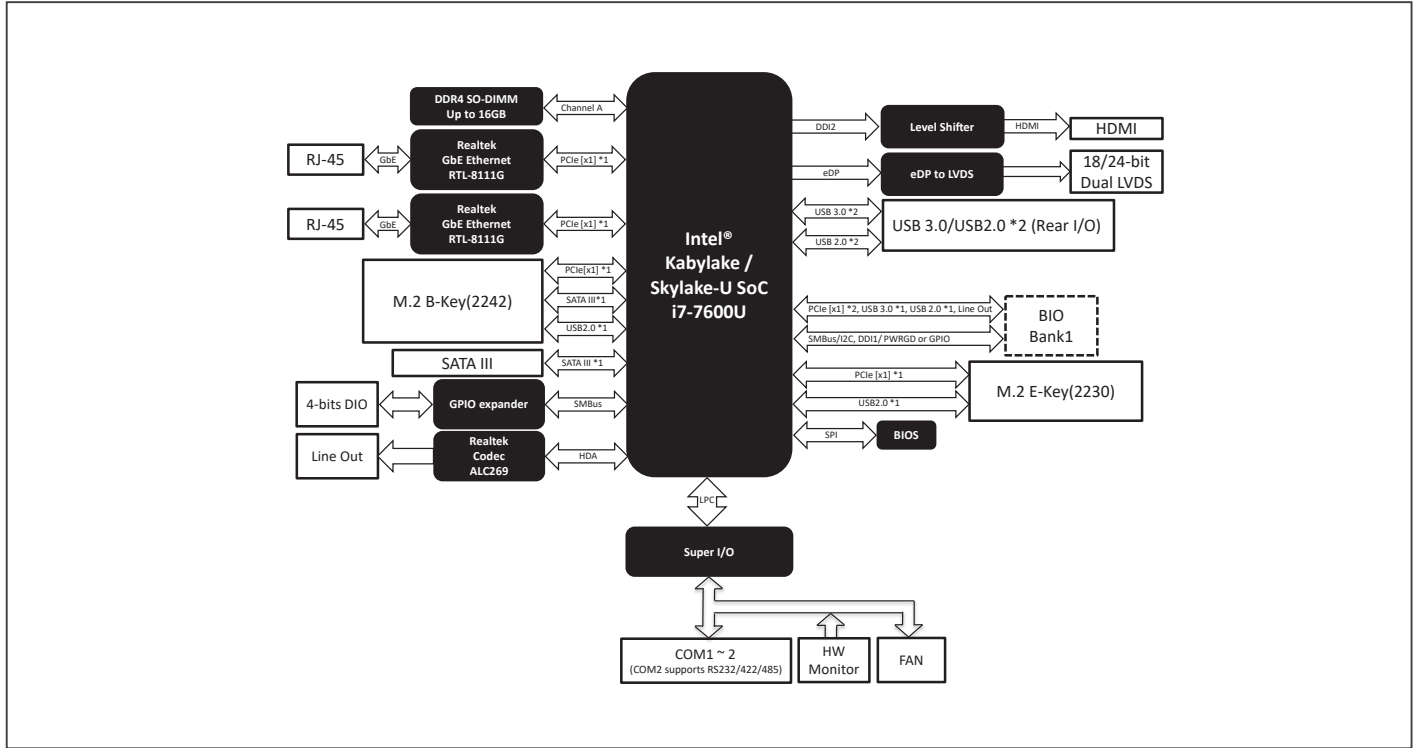
Specifications

| 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 8111G 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 | 4.8" x 3.15" x 2" (122 x 72 x 50 mm) |
| 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 |
| Display | |
| Chipset | Intel® SoC |
| Video Output | HDMI 1.4 |
| Touch | — |

Optional Accessories

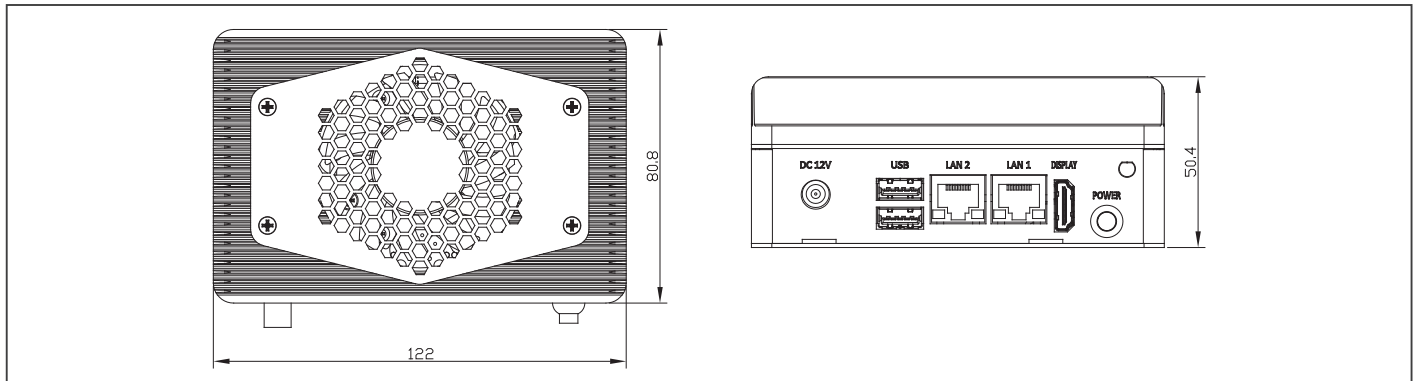
| Part Number | Description | Qty. |
|-------------|--|------|
| 125530040C | (TF)Power Adapter.12V.40W.FSP.FSP040-DHAN3 | 1 |
| 1702031802 | Power Cord (US) | 1 |
| 1702031803 | Power Cord(European Type) | 1 |
| 170203180E | Power Cord(Japan Type) | 1 |
| 1701200101 | (TF)SERIAL Cable.WL1010H-2*10P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

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 |