

# TBOX-1E11

## Ultra-Small Intel J6412 Box PC

Version: 3.0



### Features:

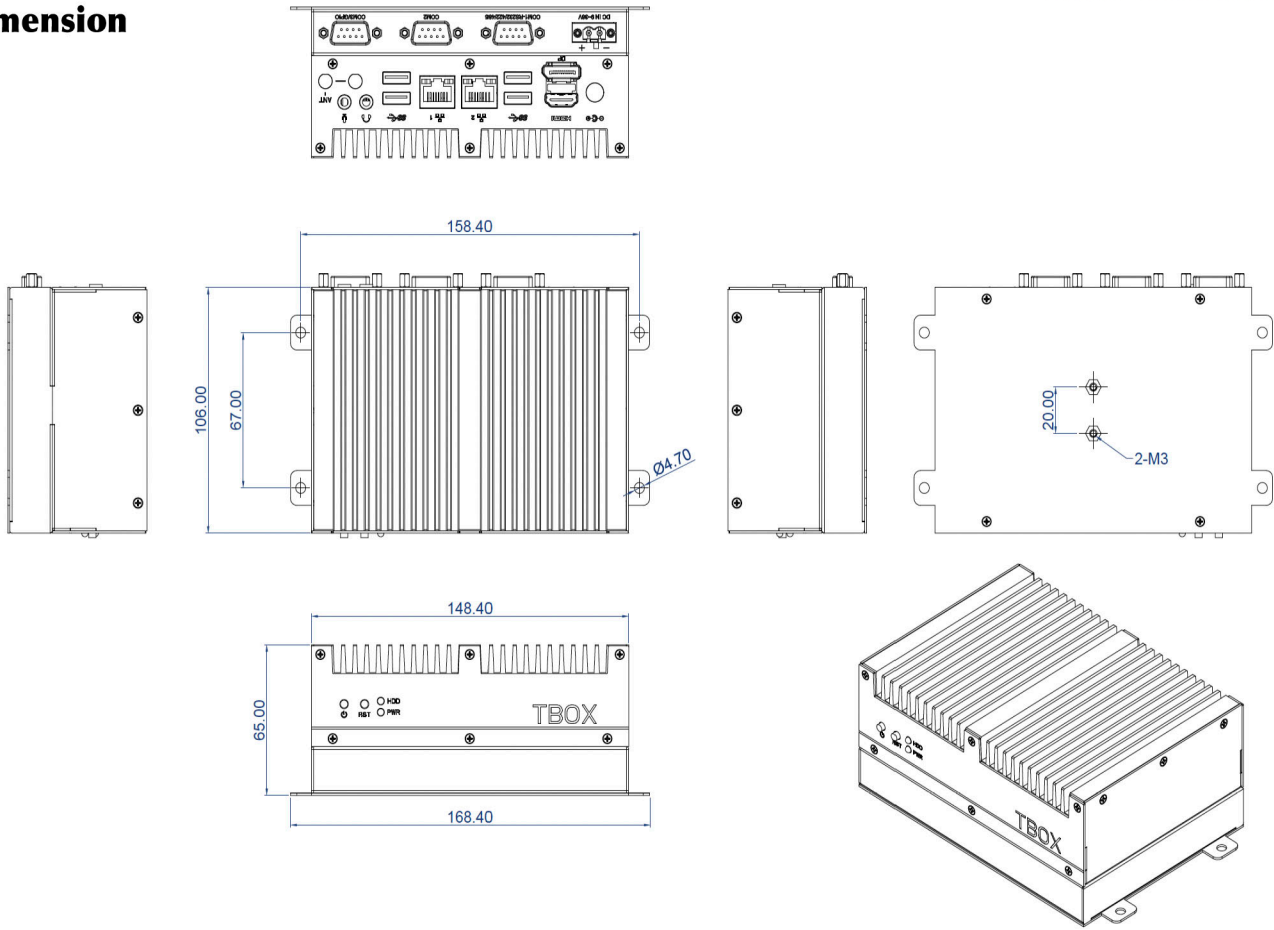
- Rugged, Ultra-small, fanless designed box structure;
- Intel Elkhart Lake Celeron J6412 Quad-core processor;
- Wide DC 9~36V power input, with over-voltage, polarity protection;
- Industrial -20 ~ + 60°C operating range;
- 2 GLAN, optional with 3G/4G/LTE/5G, and Wi-Fi/BT expansion;
- 4 USB3.0, 1 HDMI, 1 DP, 3 COM, Mic-in/Line-out;
- 1 M.2 3042/52 B-key, and 1 M.2 2230 E-key slot.

### Specification

|                                  |                           |   |
|----------------------------------|---------------------------|---|
| <b>System</b>                    | BIOS                      | SPI AMI EEI BIOS  |
|                                  | CPU                       | Intel Elkhart Lake J6412, Quad-core processor   |
|                                  | CPU Ghz                   | Quad-core 2.0Ghz, burst to 2.6Ghz   |
|                                  | TDP                       | 10W   |
|                                  | Memory                    | SO-DIMM, DDR4-3200Mt/s, Max. up to 32GB   |
|                                  | Storage                   | 1* M.2 2280 M-Key PCIe x2   |
|                                  | Graphic                   | Intel UHD Graphics Gen10  |
|                                  | Network                   | 1* Intel I225-V, 1* Intel I211AT, optional support 3G/4G/5G/Wi-Fi wireless            |
|                                  | Audio                     | On-board Realtek ACL 269 Audio controller   |
|                                  | Expansion                 | 1* M.2 3042/52 B-key slot. 1* M.2 2230 E-key slot                                     |
| <b>IO interface</b>              | Watchdog                  | 0 ~ 256 seconds programmable  |
|                                  | Operating system          | Win10, Win11, Linux   |
|                                  | Serial port               | COM1: RS232/RS485/RS422 (BIOS configurable), COM2: RS232, COM3: RS232 (Optional GPIO) |
|                                  | Ethernet                  | 2* RJ45, 10/100/1000 Mbps   |
|                                  | Audio                     | Mic-in/Line-out   |
|                                  | USB                       | 4* USB3.0   |
|                                  | Display                   | 1* HDMI, 1* DP  |
|                                  | Power input               | DC terminal   |
| <b>Structure</b>                 | GPIO                      | Optional  |
|                                  | Box structure and surface | Aluminum alloy, anodizing and anti-scratch treatment                                  |
|                                  | Color                     | Black   |
|                                  | Mount method              | Desktop, wall mount, optional with Din-rail mount                                     |
|                                  | Cooling system            | Finned aluminum heatsinks   |
|                                  | Indicator & Button        | Power switch, Power LED, HDD LED  |
|                                  | Dimension                 | 168.4 * 106.00 * 65 (mm)  |
|                                  | Net weight                | About 1.0 KG  |
| <b>Power &amp; Environmental</b> | Operating temp.           | -20 ~ + 60 (°C)   |
|                                  | Storage temp.             | -40 ~ + 70 (°C)   |
|                                  | Humidity                  | 10 ~ 95% @ 10C (No condensation)  |
|                                  | Vibration                 | 50 ~ 500 Hz, 1.5G, 0.15mm peak to peak  |
|                                  | Shock                     | 10G/Peak (11 ms)  |
|                                  | Power input               | DC 9~36V  |
|                                  | Power consumption         | About 20W   |
|                                  | EMC                       | CE/FCC Class A  |

DIMENSIONAL DRAWING:TBOX-1E11

**Dimension**



DIMENSIONS IN MILLIMETERS

**TAICENN**  
 DATE:2022.10.18  
 REV:A Unit:mm

**Ordering information**

| Part no.         | Description  |
|------------------|--|
| TBOX-1E10        | Intel Elkhart Lake J6412, 2 RJ45, 4 USB3.0, 1 HDMI, 1 DP, Mic-in/Line-out, DC 9~36V (DC Jack)            |
| <b>TBOX-1E11</b> | Intel Elkhart Lake J6412, 2 RJ45, 4 USB3.0, 1 HDMI, 1 DP, 3 COM, Mic-in/Line-out, DC 9~36V (DC terminal) |
| Memory           | Memory: SO-DIMM, DDR4,4GB/8GB/16GB   |
| Storage          | M.2 NVMe SSD: 128GB/256GB/512GB  |
| Wireless Modules | Wi-Fi module, with Antenna   |
|                  | Wi-Fi module with BT integrated, with antenna  |
|                  | All network 4G module, with Antenna  |
|                  | 5G module, with Antenna  |
| TDRK-BOX1-35     | Din 35 mount clip (1 set per unit)   |

**Packing List**

- 1 unit standard Product
- 1 set 40W PSU (Power supply)
- 1 set Power Cable & Plug