

# TBOX-1420

Intel Apollo Lake J3355 Mini Box PC with  
2x GLAN, 4x USB, 1x HDMI, 1x Mini-PCIE

## ■ Features:

- Rugged & Ultra-small, fanless aluminum box design;
- Intel Apollo Lake J3355 2.0Ghz, Dual-core, burst to 2.5Ghz processor;
- DC 12V power input, with over-current, over-voltage and polarity protection;
- Industrial wide temp. range -20 ~ + 60°C range, optional with -40 ~ + 70°C;
- 2x Intel 10/100/1000 GLAN, optional with 3G/4G/LTE, Wi-Fi/BT wireless;
- 4x USB3.0, 1x HDMI, 1x Mini-PCle;

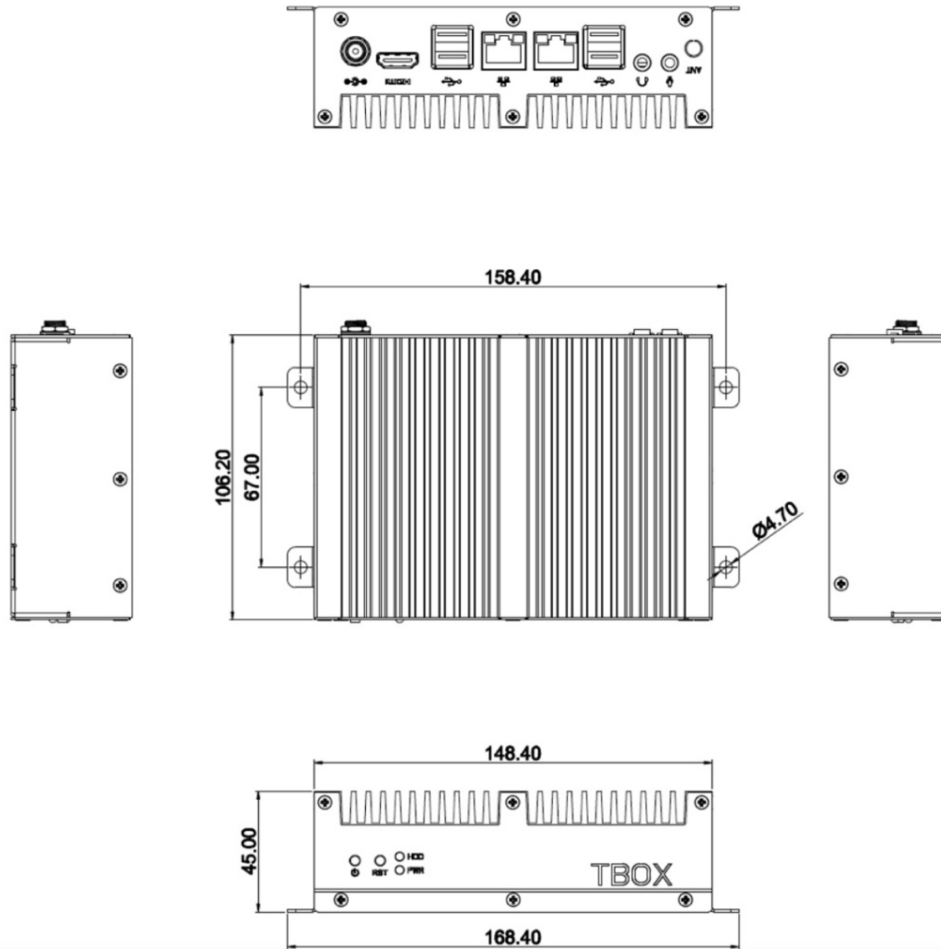


## ■ Specification

| Hardware & system |   |
|-------------------|---|
| BIOS              | SPI AMI EEI BIOS                          |
| CPU               | Intel Apollo lake J3355 processor         |
| CPU Ghz           | Dual-core 2.0Ghz, burst to 2.5Ghz         |
| TDP               | 10W                                       |
| Memory            | SO-DIMM, DDR3L-1866MT/s, max. up to 8GB   |
| Storage           | 1*mSATA                                   |
| Graphic           | Intel HD Graphics 500                     |
| Network           | 2* Intel I211AT (Optional 3G/4G/Wi-Fi)    |
| Audio             | On-board Realtek ACL 269 audio controller |
| Expansion         | 1* full size Mini-PCle slot               |
| Watch dog         | 0~256 seconds programmable                |
| Operating system  | Win10, Linux                              |
| IO interface      |   |
| COM               | N/A                                       |
| Ethernet          | 2* RJ45, 10/100/1000 Mbps                 |
| Audio             | Mic in/Line out                           |
| USB               | 4* USB3.0                                 |
| Display           | 1* HDMI                                   |
| Power             | DC Jack (5.5 * 2.5)                       |

| GPIO                    | N/A  |
|-------------------------|--|
| Structure               |  |
| Box structure & surface | Aluminum alloy, anodizing and anti-scratch treatment |
| Color                   | Black & Silver                                       |
| Mount method            | Desktop, wall mount (Optional with Din-Rail mount)   |
| Cooling system          | Large area finned aluminum heat sinks                |
| Indicator               | Power switch, Power LED, HDD LED                     |
| Dimension               | 168.4 x 106.2 x 45 (mm)                              |
| Network                 | Around 0.8 KG  |
| Power & Environmental   |  |
| Operating temp.         | -20 ~ + 60°C   |
| Storage temp.           | -40 ~ + 70°C   |
| Relative 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 12v (Optional with DC 9~36v)                      |
| Power consumption       | Around 20W   |
| EMC                     | CE/FCC Class A                                       |

## ■ Dimension



## ■ Ordering information:

| Part no.  | Ordering information  |
|-----------|---|
| TBOX-1410 | Intel Apollo Lake J3455, 1*HDMI, 2*RJ45, 4*USB3.0, Mic-in, Line-out, DC 12v |
| TBOX-1420 | Intel Apollo Lake J3355, 1*HDMI, 2*RJ45, 4*USB3.0, Mic-in, Line-out, DC 12v |

## ■ Options Accessories:

| Part no.                | Description                                   |   |                                       |
|-------------------------|---|---|---------------------------------------|
| TDDR3-4/8GB1            | Memory: SO-DIMM, DDR3L,4GB/8GB Memory         | TDRK-BOX1-35  | Din 35 mount kits (1 set per package) |
| TMSATA-32/64/128/256GB1 | mSATA SSD: 32GB/64GB/128GB/256GB/512GB        | TPS-T40W12D1  | AC-DC 12V/3.3A 40W (If not requested) |
| TWM-WIFIA1              | Wi-Fi module, with Antenna                    | <b>Packing List</b>   |                                       |
| TWM-WIFIBT1             | Wi-Fi with BT integrated module, with Antenna | <ul style="list-style-type: none"> <li>● 1x Standard Product</li> <li>● 1x 40W PSU (Power supply)</li> <li>● 1x Power cable &amp; Plug</li> </ul> |                                       |
| TWM-4GA1                | All network 4G/LTE module, With Antenna       |   |                                       |