

TBOX-3D20

PoE Embedded PC With Intel 12th Gen. Core i5-1235U; 5 GbE (4 PoE), 6 USB, 2 COM, 1 VGA 1 HDMI; DC 9~36V; 1 expansion slot

Version: 3.0



Features:

- Rugged & compact, fanless designed box structure;
- Intel 12th Gen. Alder Lake -U, Core i5-1235U CPU processor;
- Dual DDR5 memory, up to 64GB, 1* M.2 2280 storage slot;
- Wide DC 9~36V power input;
- 5 GbE (4 support PoE functional), optional wireless expansions;
- 4 USB3.1, 2 USB2.0, 1 HDMI, 1 VGA, 2 COM;
- 1 Mini-PCIe (Optional M.2 2230 E-Key) for wireless expansion;
- Industrial operating -20 ~ +60°C temp. range.

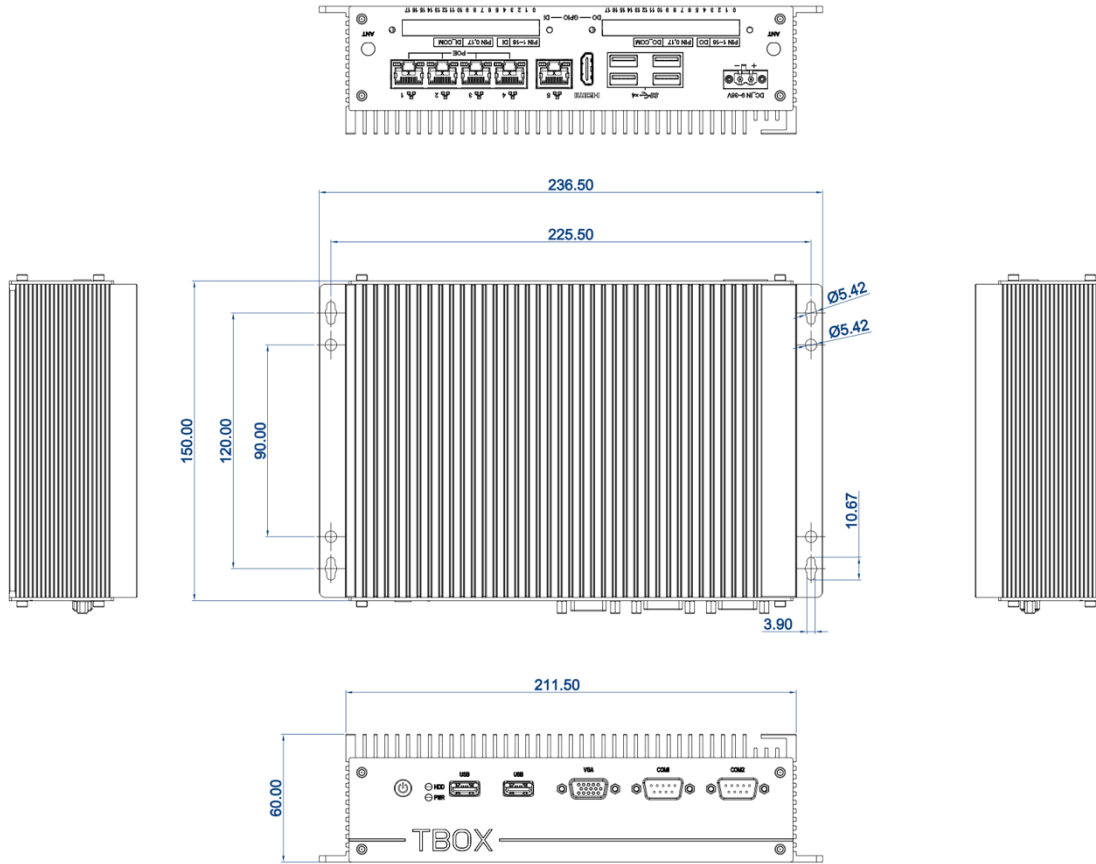
Specification



| | | |
|----------------------------------|--|---|
| System | BIOS CPU CPU Ghz TDP Memory Storage Graphic Network Audio Expansion Watchdog Operating system | SPI AMI EEI BIOS Intel 12 th Gen. Core i5-1235U processor 10 (2P/8E) Cores, 12 Threads, 1.20Ghz 15W SO-DIMM, DDR5-4800 Mhz, Dual slots, Max. up to 64GB 1* M.2 M-Key 2280 (PCIe *4 Gen.IV, NVMe) slot SSD, Optional support 1* 2.5" SATA III SSD Intel Iris Xe Graphics eligible (Up to 80 EUs, 1.20Ghz) 5* Intel I226V N/A 1* Full length Mini-PCIe (Default), or 1* M.2 2230 E-key 0 ~ 256 seconds programmable Win10, Win11, Linux |
| IO interface | Serial port Ethernet USB Display Power input GPIO | COM1: RS232; COM2: RS485 5* RJ45, 10/100/1000 Mbps, LAN1~LAN4 support PoE 802.3AF (Single port max. up to 15.4W, total less than 45W); LAN5 support standard 10/100/1000 Mbps 4* USB3.1, 2* USB2.0, 1* HDMI, 1* VGA 1* 2 pin, phenix terminal 32* GPIO (16* DI, 16* DO, with isolated) [TBOX-3D20D model] |
| Structure | Box structure and surface Color Mount method Cooling system Indicator & Button Dimension Net weight | Aluminum alloy, anodizing and anti-scratch treatment Black + Silver Desktop, wall mount Big Finned aluminum heatsinks, fanless design Power switch, Power LED, HDD LED 236.5 * 150.0 * 60.0 (mm) About 1.6 KG |
| Power & Environmental | Operating temp. Storage temp. Humidity Vibration Shock Power input Certificate | -20 ~ + 60 (°C) -40 ~ + 70 (°C) 10 ~ 95% @ 10C (No condensation) 50 ~ 500 Hz, 1.5G, 0.15mm peak to peak 10G/Peak (11 ms) DC 9~36V CE/FCC/ROHS |

Dimension

DIMENSIONAL DRAWING:TBOX-3TX0/3DX0



DIMENSIONS IN MILLIMETERS

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DATE:2022.11.29
REV:A Unit:mm

Ordering information

| Part no. | Description |
|----------------------|---|
| TBOX-3D20 | Intel Core i5-1235U, 5 GbE (4 PoE), 4 USB3.1, 2 USB2.0, 2 COM, 1 HDMI, 1 VGA, DC 9~36V, No GPIO, PSU |
| TBOX-3D20D | Intel Core i5-1235U, 5 GbE (4 PoE), 4 USB3.1, 2 USB2.0, 2 COM, 1 HDMI, 1 VGA, ADC 9~36V, 32 GPIO , PSU |
| Optional Accessories | Description |
| Memory | SO-DIMM, DDR5, <u>8GB/16GB/32GB/64GB</u> |
| Storage | SSD: <u>256GB/512GB/1TB</u> |
| | Wi-Fi module, with Antenna |
| Wireless | Wi-Fi module with BT integrated, with antenna |
| | All network 4G module, with Antenna |

Packing List

| Description | Quantity |
|-----------------------------------|----------|
| Standard TBOX-3D20 Box PC Product | 1 piece |
| PSU (Power supply) | 1 set |
| Power Cable & Plug | 1 set |