

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.

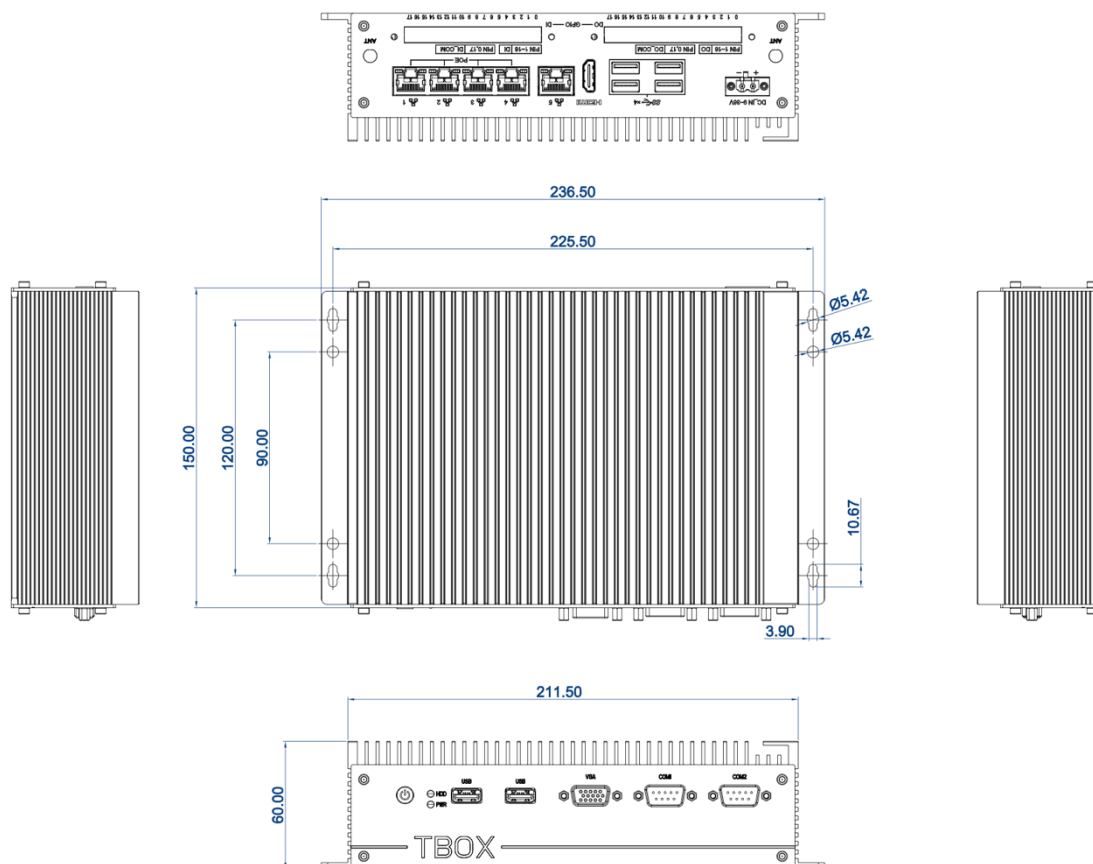
Specification



System	BIOS	SPI AMI EEI BIOS
	CPU	Intel 12 th Gen. Core i5-1235U processor
	CPU Ghz	10 (2P/8E) Cores, 12 Threads, 1.20Ghz
	TDP	15W
	Memory	SO-DIMM, DDR5-4800 Mhz, Dual slots, Max. up to 64GB
	Storage	1* M.2 M-Key 2280 (PCIe *4 Gen.IV, NVMe) slot SSD, Optional support 1* 2.5" SATA III SSD
	Graphic	Intel Iris Xe Graphics eligible (Up to 80 EUs, 1.20Ghz)
	Network	5* Intel I226V
	Audio	N/A
	Expansion	1* Full length Mini-PCIe (Default), or 1* M.2 2230 E-key
IO interface	Watchdog	0 ~ 256 seconds programmable
	Operating system	Win10, Win11, Linux
	Serial port	COM1: RS232; COM2: RS485
	Ethernet	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
	USB	4* USB3.1, 2* USB2.0,
	Display	1* HDMI, 1* VGA
	Power input	1* 2 pin, phenix terminal
Structure	GPIO	32* GPIO (16* DI, 16* DO, with isolated) [TBOX-3D20D model]
	Box structure and surface	Aluminum alloy, anodizing and anti-scratch treatment
	Color	Black + Silver
	Mount method	Desktop, wall mount
	Cooling system	Big Finned aluminum heatsinks, fanless design
	Indicator & Button	Power switch, Power LED, HDD LED
	Dimension	236.5 * 150.0 * 60.0 (mm)
	Net weight	About 1.6 KG
Power & Environmental	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
	Certificate	CE/FCC/ROHS

Dimension

DIMENSIONAL DRAWING:TBOX-3TX0/3DX0



DIMENSIONS IN MILLIMETERS

TAICENN
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, DC 9~36V, 32 GPIO , PSU
Optional Accessories	Description
Memory	SO-DIMM, DDR5, 8GB/16GB/32GB/64GB
Storage	SSD: 256GB/512GB/1TB
	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