TBOX-12N25

Fanless Box PC with Intel Alder Lake N95 CPU; 2 GbE, 8 USB, 6 COM, 1 HDMI, 1 DP, Audio; DC 12/24V Power Input

Version: 3.0



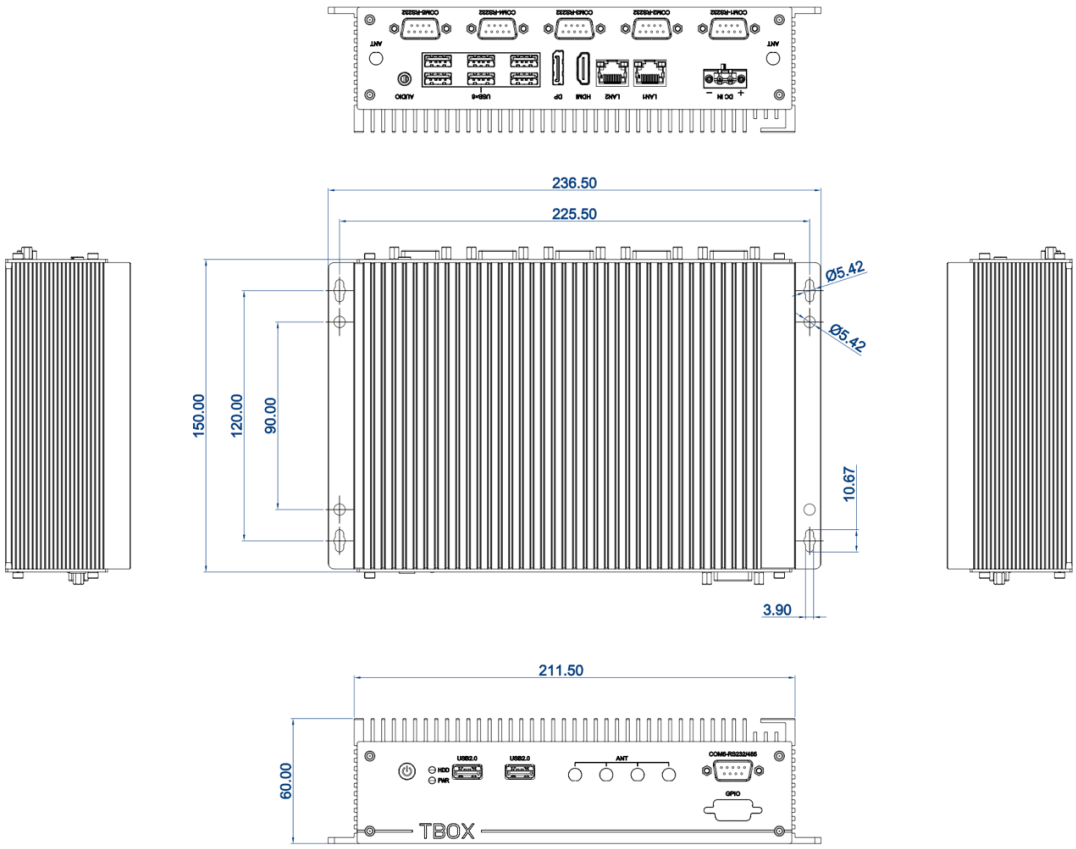
Features:

- Rugged & compact, fanless designed box structure;
- Powerful Intel 12th Gen. Alder Lake-N series N95 processor;
- Single DDR4 memory, up to 16GB, 1* M.2 2280 SATA storage;
- DC terminal 12/24V input with mains adaptor / optional wide DC 9~36V input;
- 2 GbE, optional with 3G/4G/LTE, 5G, Wi-Fi/BT;
- 4 USB3.0, 4 USB2.0, 1 HDMI, 1 DP, 6 COM, Audio;
- 2 M.2 fast-speed expansion slots;
- Industrial operating -20 ~ +60℃ temp. range.

Specification

System	BIOS	SPI AMI EEI BIOS
	CPU & Graphic	Intel 12th Gen. Alder Lake-N series N95 processor, up to 3.4Ghz, 4E-Core, TDP=15W
	Graphic	Intel UHD Graphics (Up to 16EUs, 1.2Ghz)
	TPM	Intel PTT TPM2.0
	Memory	SO-DIMM, DDR4-2666/2933/3200 Mhz, Single slot, Max. up to 16GB
	Storage	1* M.2 2280 M-Key slot (PCIex1/SATA) SSD, Optional support 1* 2.5” SATA III SSD
	Network	1* Intel I226V, 1* Intel I210AT Network chips, optional support 4G/5G/Wi-Fi/BT, Wi-Fi 6
	Audio	On-board Realtek ACL897 Audio controller
	Expansion	1* M.2 B-Key 3042/3052 slot, 1* M.2 E-Key 2230 slot
	Watchdog	0 ~ 256 seconds programmable
	Operating system	Win10/Win11 64-bit; Linux
IO interface	Serial port	COM1/2/3/4/5: RS232, COM6: RS485 (optional RS232)
	Ethernet	2* RJ45, 10/100/1000 Mbps
	Audio	1* Mic-in/Line-out (2 in 1, 3.5mm Jack)
	USB	4* USB3.0, 4* USB2.0,
	Display	1* HDMI (Max. support 4096 *2160 @30Hz), 1* DP++ (Max. support 4096 *2106 @60Hz)
	Power input	1* 2 pin, phoenix terminal
	GPIO	8* GPIO (Optional via 1* DB9)
Structure	Box structure	Aluminum alloy, anodizing and anti-scratch treatment
	Color	Silver
	Mount method	Desktop, wall mount
	Cooling system	Finned aluminum heatsinks
	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 (℃)
	Storage temp.	-40 ~ + 80 (℃)
	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 12/24V (Optional wide DC 9~36V)
	Power consumption	About 25W
	Certificate	CE/FCC/ROHS

Dimensions (mm)



Ordering information

Part no.	Description		
TBOX-12N25	Intel 12th Gen. Alder Lake-N, N95 processor, 2 GbE, 4 USB3.0, 4 USB2.0, 6 COM, 1 HDMI, 1DP, Audio Jack, DC 12/24V, PSU		
Optional	**Description**	**Packing List**	
-4G / -8G / -16G/	SO-DIMM, DDR4, 4GB/8GB/16GB	**Standard TBOX-12N25 Box PC Product**	1 set
-256GS / -512GS/-1TS	M.2 SATA SSD: 256GB/512GB/1TB	**60W PSU (Power Supply)**	1 set
	2.5" SATA SSD/HDD	**Power cable & Plug**	1 set
	2.5" HDD: 1TB/2TB/4TB		
TBOX-WiBlu2	Wi-Fi with BT Integrated module, with Antenna		
EM060K-EA-Kit	All network 4G module, with Antenna		
	5G Network module, with Antenna		
	Wi-Fi 6 module, with Antenna		
TBOX-9-36V	Wide voltage power input DC 9 ~36V with mains adaptor included		
TBOX-SIMSLOT	SIM Card slot for 4G/5G function (If requested)		

The information herein is subject to change without notice.