

# TBOX-6D25

Intel 12<sup>th</sup> Alder Lake -U Core i5-1235U  
2 GbE, 6 USB3.0, 1 HDMI, 1 DP; DC 12/24V input  
**Powerful Control Cabinet Industrial PC**

Version: 3.0



## Features:

- Rugged & Slim design, fanless design;
- Intel 12<sup>th</sup> Gen. Alder Lake-U Core i5-1235U 2P/8E core processor;
- Single DDR4 memory, up to 32GB, 1\* M.2 2280 NVMe storage;
- DC terminal 12/24V input, auto detect;
- 2 GbE, optional with Wi-Fi/BT wireless function;
- 6 USB3.0, 1 HDMI, 1 DP, Audio;
- 2 M.2 fast-speed expansion slots;
- Cabinet mount, optional Din-Rail mount;
- Industrial operating -20 ~ +60°C temp. range.

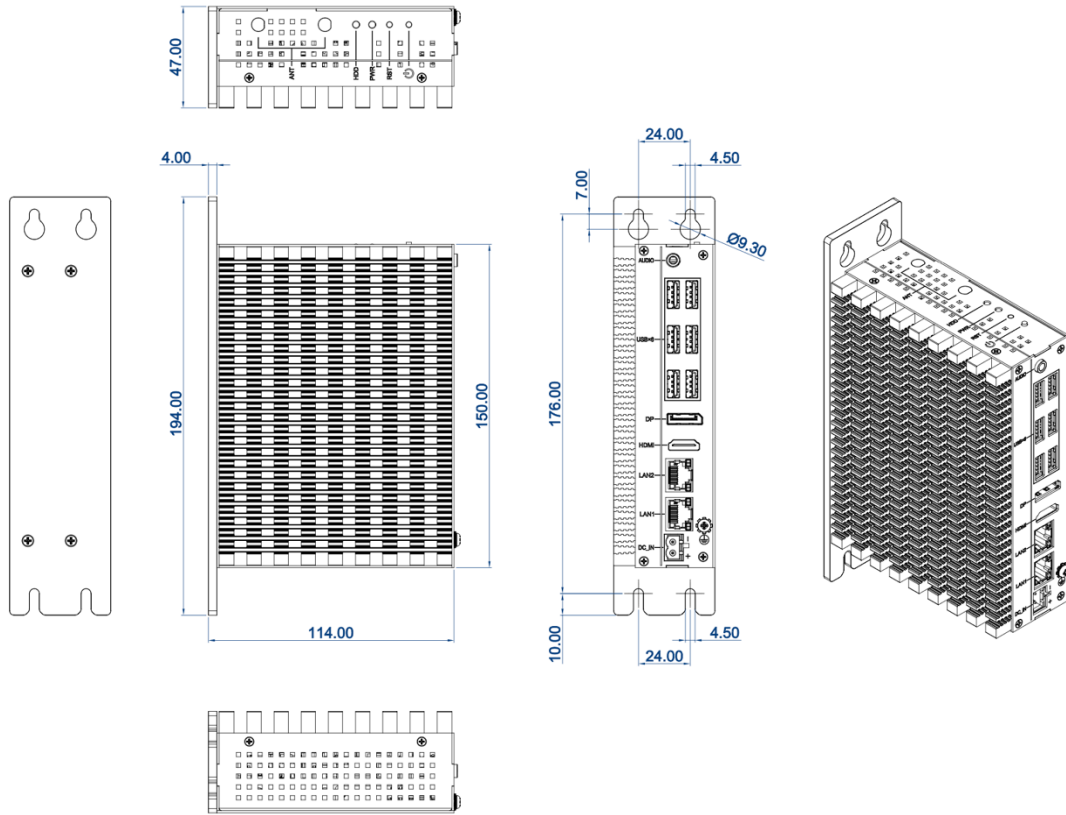


## Specification

<b>System</b>	BIOS	SPI AMI EEI BIOS
	CPU	Intel 12 <sup>th</sup> Gen. Alder Lake-U Core i5-1235U processor, 2P/8E-Core
	CPU Ghz	P-core Up to 4.40Ghz; E-core up to 3.30Ghz
	TDP	15W
	Graphic	Intel Iris Xe Graphics eligible (Up to 80 EUs, 1.2Ghz)
	TPM	Intel PTTMP2.0
	Memory	SO-DIMM, DDR4-2666/2933/3200 Mhz, Single slot, Max. up to 32GB
	Storage	1* M.2 M-Key (PCIe x4 / SATA, Default PCIe 4x, Gen. IV NVMe, 2280) SSD slot
	Network	1* Intel I219AT, 1* Intel I226V, Optional support Wi-Fi/BT wireless
	Expansion	1* M.2 3042/3052 B-key slot, 1* M.2 E-key slot (Wi-Fi/BT)
Watchdog	0 ~ 256 seconds programmable	
Operating system	Win10/Win11; Linux Kernel 5.17 or later	
<b>IO interface</b>	Serial port	N/A
	Ethernet	2* RJ45, 10/100/1000 Mbps
	USB	6* USB3.0
	Display	1* HDMI (Max. support 2048 *1080 @30Hz), 1* DP++ (Max. 4096*2304 @60Hz)
	Audio	1* Mic-in/Line-out (2-in-1, 3.5mm Jack)
	Power input	1* 2 pin, DC terminal
<b>Structure</b>	Box structure and surface	Aluminum alloy, anodizing and anti-scratch treatment
	Color	Black
	Mount method	Cabinet mount, Din-Rail mount ( <b>Optional</b> )
	Cooling system	Finned aluminum heatsinks
	Indicator & Button	Power switch, Power LED, HDD LED
	Dimension	150.00mm * 114.00mm * 47.00 mm (194.00mm with mount rack)
	Net weight	About 1.0 KG
<b>Power &amp; Environmental</b>	Operating temp.	-20 ~ + 60 (°C)
	Storage temp.	-40 ~ + 80 (°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 12V/24V (Auto detect)
	Power consumption	About 25W
	Certificate	CE/FCC/ROHS

## Dimension

DIMENSIONAL DRAWING:TBOX-6NX5/6DX5



DIMENSIONS IN MILLIMETERS

**TAICEN**  
DATE:2024.09.13  
REV:E Unit:mm

## Ordering information

Part no.	Description
TBOX-6D25	Intel 12 <sup>th</sup> Gen. Alder Lake-U Core i5-1235U Processor, 2 RJ45, 6 USB3.0, 1 HDMI, 1DP, Audio, DC terminal 12/24V, No PSU, Cabinet mount rack
TBOX-6D25R	Intel 12 <sup>th</sup> Gen. Alder Lake-U Core i5-1235U Processor, 2 RJ45, 6 USB3.0, 1 HDMI, 1DP, Audio, DC terminal 12/24V, No PSU, <b>Din-Rail mount rack</b>
TBOX-6D25N	Intel 12 <sup>th</sup> Gen. Alder Lake-U Core i5-1235U Processor, 2 RJ45, 6 USB3.0, 1 HDMI, 1DP, Audio, DC terminal 12/24V, No PSU, <b>No mount rack</b>
Optional Accessories	Description
Memory	SO-DIMM, DDR4, <u>8GB/16GB/32GB</u>
Storage	M.2 NVMe SSD: <u>256GB/512GB/1TB</u>
Wireless	Wi-Fi 6 module, with Antenna Wi-Fi module with BT integrated, with antenna
Power Supply	60W/12V power supply unit (If needed)

## Packing List

Description	Quantity
Standard TBOX-6D25 Box PC Product	1 piece
Power Cable & Plug	1 set