TBOX-12E15

Rugged Intel Industrial Box PC

Version: 1.0



Features:

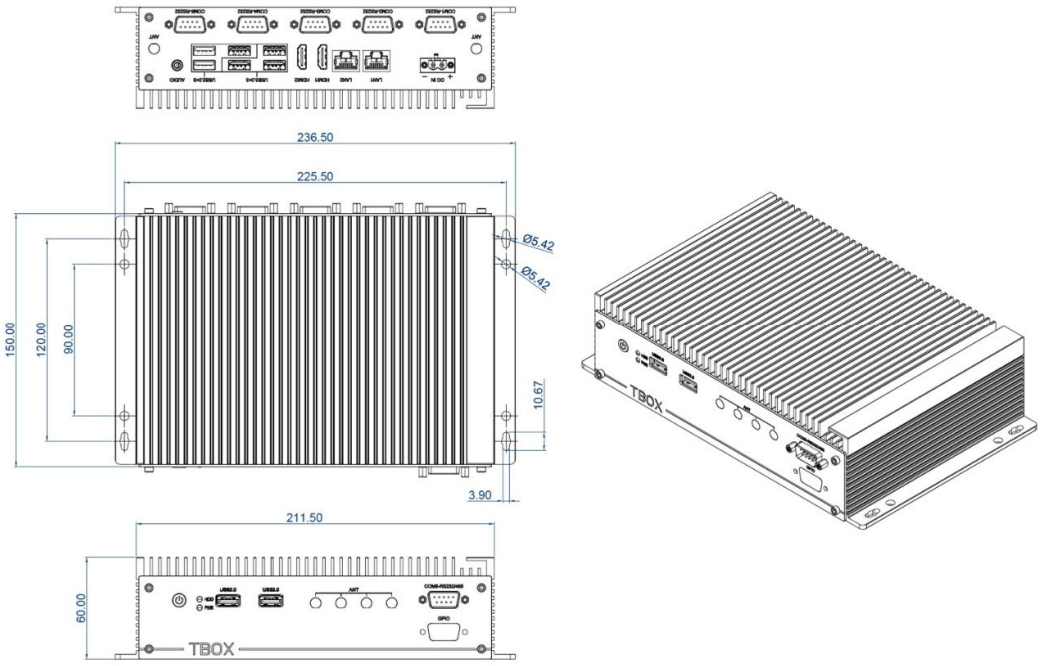
- Rugged & compact, fanless designed box structure;
- On-board Intel Elkhart Lake J6412 Quad-core processor;
- 1* DDR4 memory, single slot, max. up to 32GB,
- 1* M.2 2280(NGFF) Key-M slot (PCIe x2 NVME) SSD;
- DC 12V input, optional wide voltage DC 9~36V input;
- 2 GLAN, dual wireless expansion 4G/5G, WIFI/BT support;
- 8 USB (3 USB3.0), 6 COM, GPIO (Optional), 2 HDMI, Audio;
- Industrial -20 ~ + 70℃ operating range, optional -40~+80 ℃.

3 YEAR WARRANTY

Specification

System	BIOS	SPI AMI EEI BIOS
	CPU	Intel Elkhart Lake J6412
	CPU Ghz	Quad-core 2.0Ghz, burst to 2.6Ghz, TDP 10W
	TPM	Intel PTT TPM2.0
	Memory	SO-DIMM, DDR4-2666/2933/3200 MHz, Single slot, Max. up to 32GB
	Storage	1*M.2 (NGFF) 2280 Key-M slot (PCIe x2 NVME) SSD, 1* 2.5" SATA (optional)
	Graphic	Intel UHD Graphics for 10th Gen Intel processors
	Network	2* Intel I225 GBE LAN chip, Optional WIFI+BT (Mini-PCIe), 4G/5G (M.2 Key-B 3042/3052)
	Audio	On-board Realtek ACL897 Audio controller
	Expansion	1* M.2 Key-B slot, 1* Mini-PCIe slot
	Watchdog	0 ~ 256 seconds programmable
	Operating system	Win10 /Win11, Linux
IO interface	Serial port	COM1~5: RS232 COM 6: RS485 (Optional RS232)
	Ethernet	2* RJ45, 10/100/1000 Mbps
	Audio	1* Mic-in/Line-out (2in1 jack 4.0mm)
	USB	3* USB3.0 + 5* USB2.0
	Display	2* HDMI (Max. support 4096 * 2160 @30Hz)
	Power input	1* 2 pins, Phenix terminal
	Optional	8* GPIO (DB9)
Structure	Box structure and surface	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 * 60 (mm)
	Net weight	About 1.6 KG
Power & Environmental	Operating temp.	-20 ~ + 70 ℃
	Storage temp.	-40 ~ + 80 ℃
	Humidity	10 ~ 95% @ 10C (No condensation)
	Vibration	50 ~ 500 Hz, 1.5G, 0.15mm peak to peak
	Shock	10 G/Peak (11 ms)
	Power input	DC 12V (Optional DC 9~36V)
	Power consumption	About 20W
	EMC	CE/FCC Class A

Dimensions (mm)



Ordering information

Part no.	Description
TBOX-12E15	Intel Elkhart Lake J6412, 2 RJ45, 3 USB3.0, 5 USB2.0, 6 COM, 2 HDMI, Audio, DC 12V, PSU
TBOX-12E15-D	Intel Elkhart Lake J6412, 2 RJ45, 3 USB3.0, 5 USB2.0, 6 COM, **GPIO**, 2 HDMI, Audio, DC 12V, PSU
-4G / -8G/-16G/-32G	Memory: SO-DIMM, DDR4, 4GB/8GB/16GB/32GB
-128GS / -256GS / -512GS	M.2 NVMe SSD: 128GB/256GB/512GB
	2.5" SATA SSD: 128GB/256GB/512GB/1TB
	2.5" HDD: 2TB/4TB
TBOX-WiFi	Wi-Fi module, with Antenna
TBOX-WiBlu	Wi-Fi module with BT integrated, with antenna
EM06-E-PCKit	All network 4G module, with Antenna
	5G module, with antenna
TBOX-9-36V	Optional 9-36V DC wide voltage input module with mains adaptor included
TBOX-SIMSLOT	Sim card slot for 3G/4G/5G wireless expansion, accepts full size (2FF) SIM cards

Packing List

- 1 unit standard Product
- 1 set PSU (Power supply)
- 1 set Power Cable & Plug

The information in this specification is subject to change without notice.