

TBOX-13110 / TBOX-13111

Industrial PoE Fanless Embedded PC

Version: 3.0

Features:

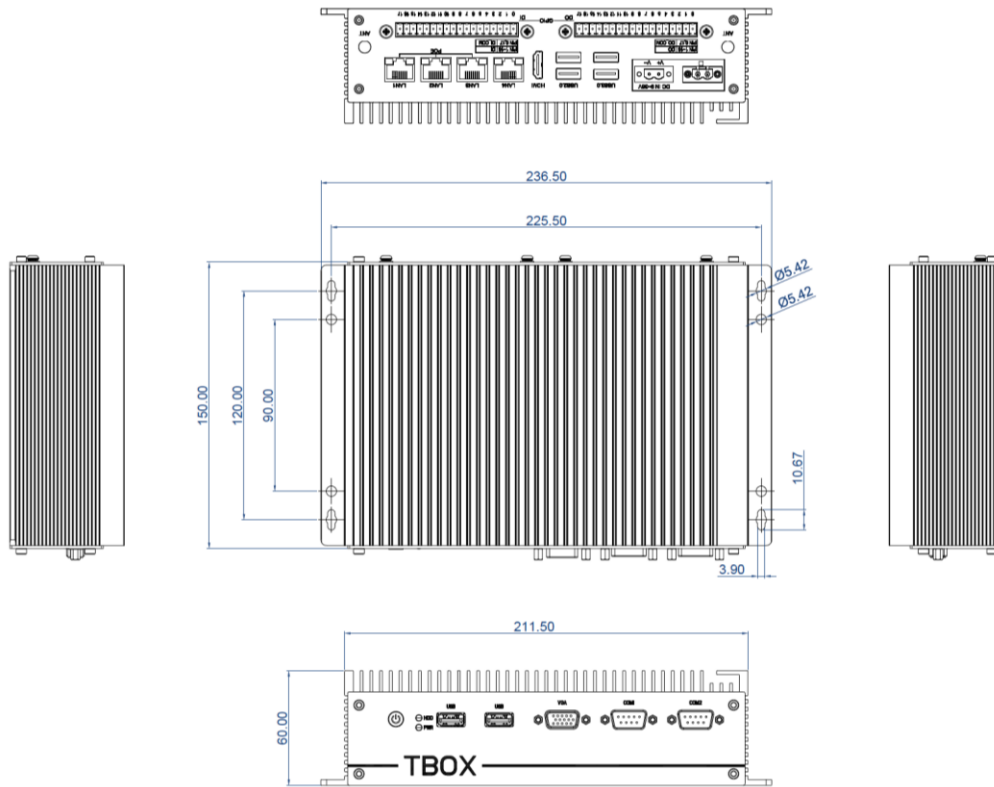
- Intel Elkhart Lake Celeron J6413 Quad-core processors;
- 1* DDR4 memory socket, max. up to 16GB;
- 1* M.2 M-key 2280 SATA SSD, and 1* 2.5" SATA Storage;
- Two independent displays: 1* HDMI, 1* VGA;
- DC 9~36V input, with over-current, over-voltage, polarity protection;
- 4* GLAN (3* PoE), 6* USB, 2*COM, 32* GPIO;
- 1* M.2 2230 E-key for Wi-Fi, 1* Mini-PCIe for 4G modules expansion;
- Industrial -20 ~ + 70°C operating temperature range.



Specification

System	BIOS	SPI AMI EEI BIOS
	CPU	Intel Elkhart Lake Celeron J6413
	CPU Ghz	Quad-core four threads 1.8Ghz, burst to 3.0Ghz
	TDP	10W
	Memory	SO-DIMM, DDR4-2666/2933/3200 MHz Max. up to 16GB
	Storage	1* M.2 M-key 2242/2280 SATA SSD (Optional support 1* 2.5" SATA)
	Graphic	Intel HD Graphic Gen 10
	Network	LAN 1~ 3: Intel I210AT; LAN 4: I225V
	Audio	On-board Realtek ACL 269 Audio controller
	Expansion	1 M.2 2230 E-key slot for Wi-Fi, 1* Full length Mini-PCIe expansional slot
	Watchdog	0 ~ 256 seconds programmable
Operating system	Win10, Linux	
IO interface	Serial port	2 * (support 1* RS485)
	Ethernet	4* RJ45, 10/100/1000 Mbps, LAN 1~ LAN 3 support PoE 802.3 AF (Single port max. up to 15.4W, total less than 45W); LAN 4 support standard 10/100/1000 Mbps
	USB	2* USB3.0, 4* USB2.0
	Display	1* HDMI, 1* VGA
	Power input	1* 2 pins, Phenix terminal
	GPIO	32* GPIO (16* DI, 16* DO, with isolated) (TBOX-13111 only)
Structure	Box structure and surface	Aluminum alloy, anodizing and anti-scratch treatment
	Color	Black + Silver
	Mount method	Desktop, wall mount
	Cooling system	Big area aluminum heatsinks, copper tube inside, fanless design
	Indicator & Button	Power switch, Power LED, HDD LED, remote switch
	Dimension	236.5 * 150 * 60 (mm)
	Net weight	About 1.60 KG
Power & Environmental	Operating temp.	-20 ~ + 70 °C
	Storage temp.	-40 ~ + 80 (°C)
	Humidity	10 ~ 95% @ 40C (No condensation)
	Vibration	50 ~ 500 Hz, 1.5G, 0.15mm peak to peak
	Shock	10 G/Peak (11 ms)
	Power input	DC 9~36V
	EMC	CE/FCC Class A

Dimensions (mm)



Ordering information

Part no.	Description
TBOX-13111	Intel Celeron J6413, 1*HDMI, 1*VGA, 4*RJ45, 2*USB3.0, 4*USB2.0, 2*RS232, 32* DIO, Mic-in, Line-out, DC 9 ~36V
TBOX-13110	Intel Celeron J6413, 1*HDMI, 1*VGA, 4*RJ45, 2*USB3.0, 4*USB2.0, 2*RS232, (No DIO), Mic-in, Line-out, DC 9 ~36V
-4G / -8G / -16G	Memory: SO-DIMM, DDR4, 4GB/8GB/16GB
-64GS / -128GS / -256GS / -512GS	mSATA SSD: 64GB/128GB/256GB/512GB
	2.5" SATA SSD: 64GB/128GB/256GB/512GB/1TB
	2.5" HDD: 1TB/2TB/4TB
TDRK-BOX23-35	DIN Rail Mounting Kit (factory option, must be ordered with TBOX)
TBOX-WiBlu	Wi-Fi module with BT integrated, with antenna
EC25-AU-PCKit	All network 4G module, with Antenna

Packing List

■ 1 unit standard Product
■ 1 set 60W PSU (Power supply)
■ 1 set Power Cable & Plug

