

SBOX-2625-SF

Intel® Twin Lake Processor N150 Ultra-Compact Embedded Computer



- Ready for high-speed DDR5 4800 memory, up to 16 GB capacity
- 9–36V Wide DC Input with OCP, OVP, Surge and Reversed Polarity Protection
- Up to 6 x USB Ports and 3 x COM Ports for Retail and Industrial Applications
- 2 x Intel 2.5Gb Ethernet for High-Bandwidth Uplink and Downlink Connection
- Expandable Wireless Connectivity via M.2: Wi-Fi, 5G, and LTE Module
- Support TPM 2.0 to Enhance System Security and Safeguard Critical Data
- Ultra-Compact Fanless Computer for Limited Space Deployment

Specifications

System

Processor

- Intel® Twin Lake N150 4-core processor up to 3.60 GHz

Graphics

- Intel® Graphics

Memory

- 1 x DDR5-4800 SO-DIMM up to 16GB

Security

- TPM 2.0

Watchdog

- Auto reset for unresponsive system (custom 1-255 sec/min delay settings in BIOS)

Interface

Video

- 2 x HDMI® up to 3840 x 2160 @ 60Hz as specified in HDMI 2.0b

Audio

- 1 x Line-out, 1 x Mic-in

Ethernet

- 2 x 2.5GbE (Intel I226-LM) via RJ-45

USB

- 2 x USB 3.2 Gen 1, 2 x USB 2.0 (SBOX-2625-SF-2S, SBOX-2625-SF-3S)
- 2 x USB 3.2 Gen 1, 4 x USB 2.0 (SBOX-2625-SF only)

DIO

- 4 x DI (DC 5-36V), 4 x DO (DC 5V/100mA) (SBOX-2625-SF-2S only)

COM

- 2 x RS-232/422/485 (SBOX-2625-SF, SBOX-2625-SF-2S)
- 2 x RS-232/422/485, 1 x RS-232 (SBOX-2625-SF-3S only)

Internal Expansion

M.2

- 1 x M.2 3042/3052 Key B for WWAN (PCIe Gen3 x1, USB 3.2, SATA) w/ SIM support
- 1 x M.2 2230 Key E for Wi-Fi/BT

Certification / Compliance

- CE, FCC Class A, UKCA, IEC/EN 62368-1

Storage

Type

- 1 x 2.5" SATA SSD
- 1 x M.2 2242 Key B for SATA SSD*

*M.2 Key B is a combo slot, either WWAN module or M.2 SATA can be installed.

Power

Power Input

- DC 9-36V (nominal power input DC 12V/24V) via 2-pin terminal block

Power Protection

- OCP, OVP, surge protection, reversed polarity protection

Software

Operating System

- Windows 11 IoT Enterprise LTSC
- Ubuntu 24.04 LTS

Environmental

Operating Temp.

- -30°C ~ 60°C (-22°F ~ 140°F) with 0.6 m/s airflow *

*Tested with the system mounted on a 300 x 300 x 5 mm aluminum heat spreader to simulate in-cabinet thermal conditions

Storage Temp.

- -40°C ~ 85°C (-40°F ~ 185°F)

Relative Humidity

- 10% RH ~ 90% RH (non-condensing)

Mechanical

Construction

- Steel

Antenna

- 4 x SMA connector mounting hole

Mounting

- Wall mounting

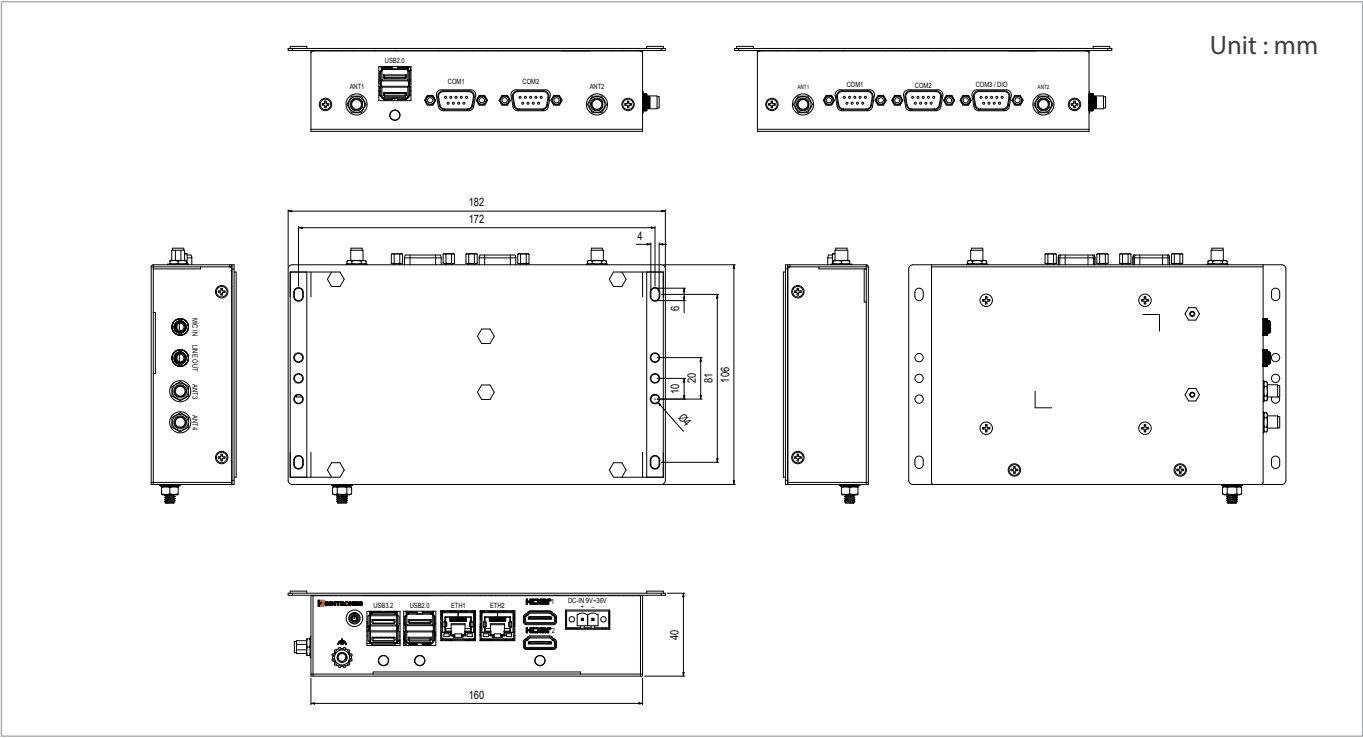
Net Weight

- 720.5g (1.59 lb)

Dimensions (L x W x H)

- 182 x 106 x 40 mm (7.17 x 4.17 x 1.57 in.)

Dimensions



Model Name	CPU	HDMI	2.5GbE	USB	COM	DIO	Audio	DC-IN
SBOX-2625-SF-N150	Intel® Processor N150	2	2	2 x USB 3.2 4 x USB 2.0	2 x RS232/422/485	0	Mic in and Line Out	9-36V
SBOX-2625-SF-2S-N150	Intel® Processor N150	2	2	2 x USB 3.2 2 x USB 2.0	2 x RS232/422/485	1	Mic in and Line Out	9-36V
SBOX-2625-SF-3S-N150	Intel® Processor N150	2	2	2 x USB 3.2 2 x USB 2.0	2 x RS232/422/485 1 x RS 232	0	Mic in and Line Out	9-36V

Ordering Information

Model Number	SBOX-2625-SF-(2S)(3S)-N150 (2S=2 x COM + 1 x DIO, 3S= 3 x COM)
Description	Intel® Twin Lake N150 Ultra-Compact Embedded Computer
State of Origin	Made in Taiwan

Optional Accessories

Memory	DDR5-4800 SO-DIMM, 8GB to 16GB
Storage	M.2 2242 Key B+M SATA SSD
	2.5" SATA SSD
Wi-Fi	M.2 2230 Key A-E Wi-Fi module
WWAN	M.2 3042/3052 Key B WWAN module
Power Adaptor	AC/DC 100-240V/12V 60W C14 lockable DC plug power adaptor

All specifications are subject to change without notice.