

ABOX-5211P-i500

Intel® 10th Generation Core™ i5-10500TE Processor
On-Board Computer



- 2 x M.2 2280 Key M for NVMe or AI Acceleration Module
- 1 x M.2 2280 Key M for NVMe or SATA SSD
- 8 x GbE with PoE Support for Easy Connection with IP Camer

Specifications

System

Processor

- Intel® 10th Generation Core™ i5-10500TE

Graphics

- Processor Built-in GPU - Intel® UHD 630 Series Graphics

Chipset

- Q470E

Memory

- 2 x SO-DIMM Support DDR4-3200 up to 64GB

Network

- 8 x I210-AT

Security

- TPM 2.0

Watchdog

- System power on/off 1 ~ 255 min setting by BIOS

Interface

Video

- 2 x DP 1.4 (Maximum Resolution : 7680 x 4320 @ 60Hz)
- 2 x HDMI (Maximum Resolution : 4096 x 2160 @ 60Hz)

Audio

- 1 x Line-out, 1 x Line-in, and 1 x MIC

Ethernet

- 8 x GbE with PoE (Total 120W Power Budget)

USB

- 4 x USB 3.2 Gen 10Gbps, 4 x USB 3.2 5Gbps

DIO

- 8 x DI (9~60VDC), and 4 x DO (5V, 100mA)

Serial Port

- 4 x RS-232/422/485

Internal Expansion

M.2

- 2 x M.2 3042/52 Key B for WWAN (USB3.0) with Dual SIM Support
- 1 x M.2 2230 Key E for Wi-Fi

Mini-PCIe

- 2 x Mini-PCIe

Storage

Internal

- 2 x M.2 2280 Key M for PCIe 4.0 x4 NVMe SSD
- 1 x M.2 2280 Key M for PCIe 4.0 x4 NVMe or SATA SSD (Auto Detection)
- 2 x 2.5" Drive Bay for SATA Type SSD

Power

Power Input

- DC 9~60V

Power Protection

- OCP, OVP, Surge and Reversed Polarity Protection

Power Management

- Ignition Detection, and Power off Delay Time Setting by Software

Software

Operating System

- Windows 10 IoT Enterprise LTSC
- Windows 11 IoT Enterprise
- Ubuntu Desktop 22.04

Environmental

Operating Temp.

- -40°C ~ 70°C w/0.6 m/s airflow (for barebone system)
- *Operating Temp. Varies by Accessories Installed.

Storage Temp.

- -40°C ~ 80°C

Relative Humidity

- 10% RH – 90% RH (non-condensing)

Vibration (with SSD)

- MIL-STD-810G, Method 514.6, Procedure I, Cat.4 (Operating)
- IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis

Shock (with SSD)

- MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD (Operating)

Certification / Standard

- CE
- FCC Class A
- E-Mark
- ECE R118

Mechanical

Construction

- Aluminum Alloy

Mounting Method

- Wall Mount

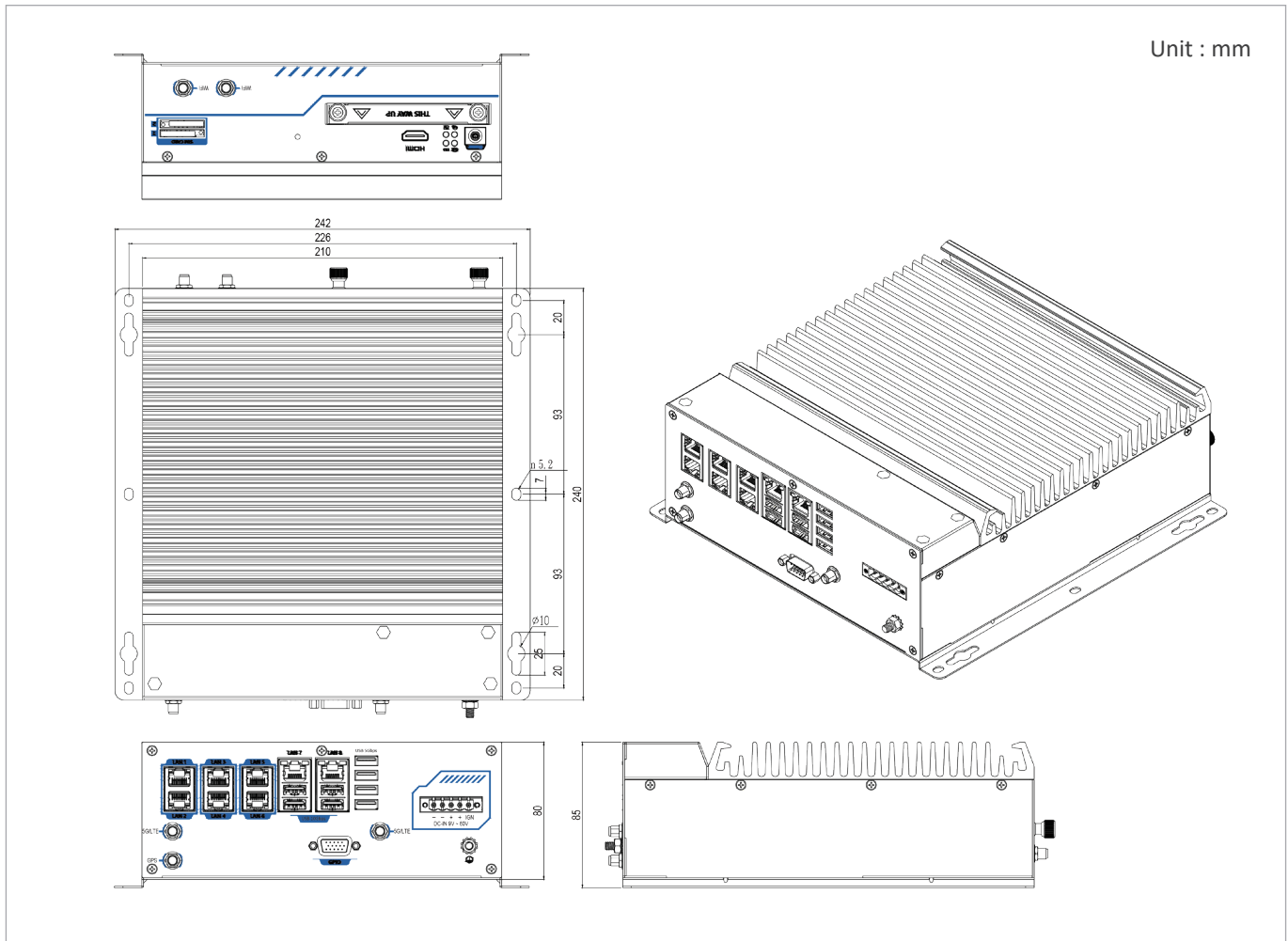
Weight

- 3.5kg

Dimensions

- 150 mm (L) x 135 mm (W) x 66 mm (H)

Dimensions



Ordering Information

Model Number	ABOX-5211P-i5
Description	Intel® 10th Generation Core™ i5-10500TE Processor On-Board Computer
State of Origin	Made in Taiwan

Optional Accessories

Memory	DDR4-3200 SO-DIMM, 16GB~32GB, -40 ~ 85°C
SSD	M.2 2280 Key B-M NVMe TLC -40~85°C 256GB~2TB w/ Heatsink M.2 2280 Key B-M SATA TLC -40~85°C 128GB~1TB w/ Heatsink 2.5 inch SATA TLC -40~85°C 128GB~1TB
Wi-Fi	M.2 2230 Key E 802.11 a/b/g/n/ac, Wi-Fi 6E
WWAN	M.2 3042 Key B 5G & LTE (USB)
GNSS	Mini-PCIe GNSS Module
CAN Bus	Mini-PCIe CAN Bus Module
Battery (UPS)	BAT-5200 Battery Kit, 5200m/h, Charging Temp. 0~45°C, Discharging Temp. -10 ~ 60°C
Power Adaptor	AC/DC 24V Power Adaptor

All specifications are subject to change without notice.