

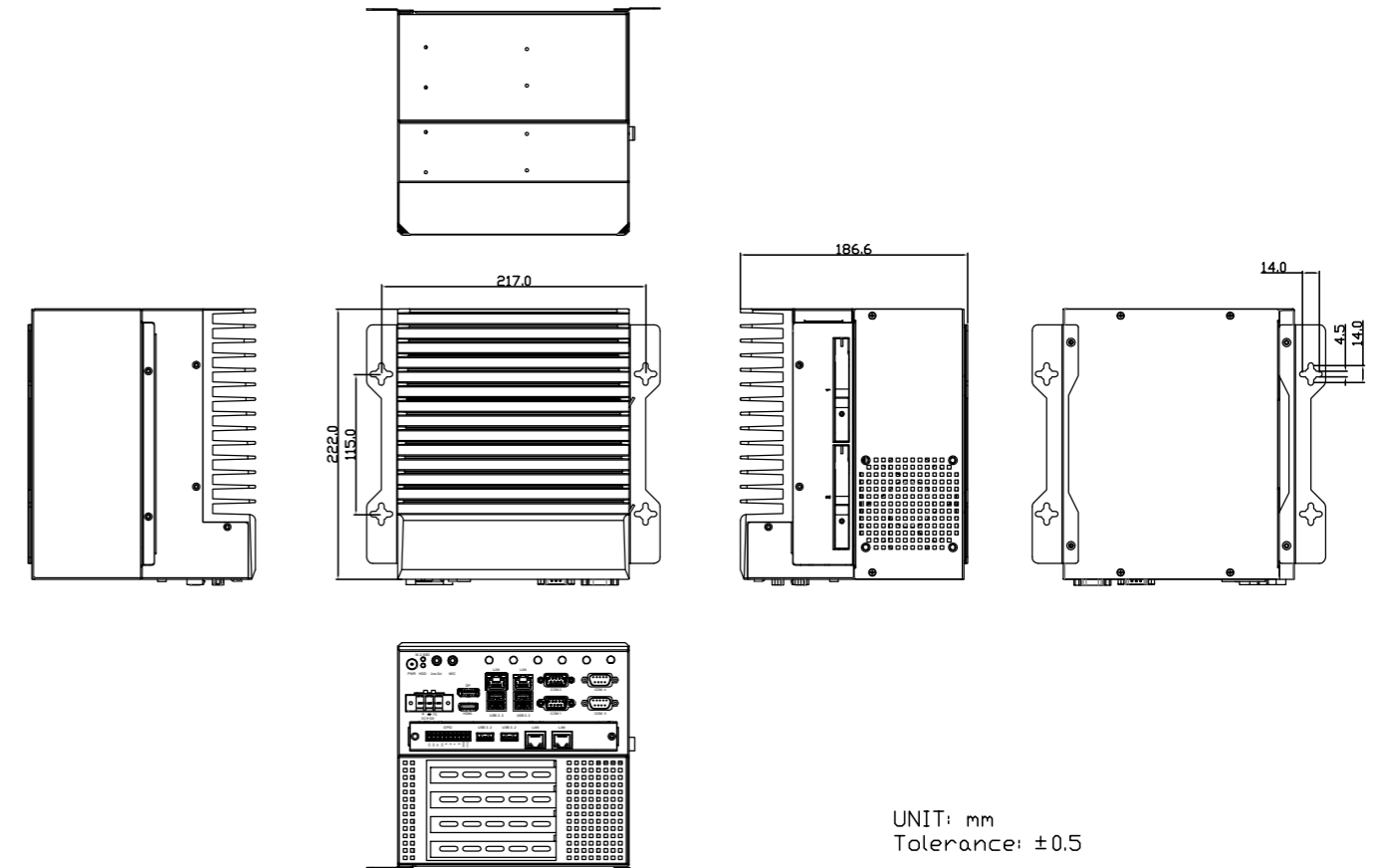
### Features

- Vertical System for Machine Vision
- Intel Core 13th/12th Gen i3/i5/i7/i9 Processors
- 2 x DDR5 4800MHz SO-DIMM, up to 64GB
- Toolless HDD Tray for easy data storage maintenance
- CPU(35W) Fan-less Design and Smart fan support for high-end CPU up to 65W (optional)
- Flexible expansion features through I/O module design with Mini PCIe add-on card support
- DC 9~32V Wide Range Power Input
- Support extensive GPU Card(75W/125W) expansion

### Specifications

System	
CPU	13th/12th Gen. Intel Core i3/i5/i7/i9 Processors
System Chipset	Intel Q670E
Memory	2 x 262-pin DDR5 (4800MHz) SO-DIMM Memory, up to 64GB (32GB per slot)
TPM	TPM 2.0
IO Port	
USB	4 x USB 3.2 Gen1 Type-A
Serial/Parallel	4 x RS-232/422/485 Selectable Default RS-232
DP	1 x DP++ 1.4A
Audio	1 x Line-out 3.5mm Phone Jack 1 x Mic-in 3.5mm Phone Jack
HDMI	1 x HDMI 2.1
LAN	2 x 2.5GbE LAN RJ-45 (i226LM, LAN1 Support vPro)
Power	1 x 3-pin DC Power Input via Terminal Block
Power Button	
Power Button	1 x Power Button with LED
LED Indicators	
LED Indicators	1 x M.2 SSD / 1 x 2.5" SATA
M.2 Expansion	
M.2	1 x M.2 2230 E-key for Wi-Fi / Bluetooth 1 x M.2 3042/3052 B-key, For 4G/5G, with onboard NANO SIM slot
Storage Space	
Storage	Default: 1 x M.2 M-key, 2280/2242 Option: 2 x 2.5" SATA3 HDD/SSD (Easy-swappable HDD tray), with RAID 0,1
Expansion	
Mini PCIe	1 x Full-size Mini PCIe
Expansion Slots	1 x PCIe x16 + 1 x PCIe x4 (or 2 x PCIe x8 + 2 x PCIe x4) (FAN optional) Note: PCIe/PCI Board (include GPU card) Dimension: L ≤ 195mm, H < 4.5mm, W ≤ 120mm
High Speed Expansion I/O	2 x USB 3.2 Gen1 Type-A 2 x GbE LAN RJ-45 (i210AT (from TB-619)) Digital I/O Terminal Block (10-pin, 4 x SI, 4 x SO, 1 x 5V, 1 x GND)
Others	
Others	Watchdog Timer (256 steps) 6 x SMA for Wi-Fi and 4G LTE/ 5G/ GPS Antennas
Power	
Power Input	DC 9~32V

### Dimensions



Mechanical	
Construction	Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis
Mounting	Wall Mount (default) & DIN Rail Back Side (optional)
Dimensions	222 x 217 x 186.6 mm
Net Weight	5.3 kg
Environmental	
Operating Temperature	-20~60°C (for i3/i5 model) / -20~50°C (for i9/i7 model)
Storage Temperature	-40°C~85°C
Storage Humidity	10 to 90%@ 40°C, non-condensing
Certificate	Meet CE / FCC Class A
Operating System Support	
Operating System	Windows 10 IoT LTSC / Windows 11 IoT / Ubuntu 22.04 (Linux Kernel 5.15)