

ABOX-5210P-i7

Taiwan Patent No. M447854, M565941, M592609

10th Gen Intel® Core™ i7-10700TE CPU w/ 10 x GbE (Supports 8 x PoE)/ 3 x COM/ 3 x DP/
4 x USB 3.2 5Gbps/ 9-48V Input/ AI GPU Computing

Features

- 10th Gen Intel® Core™ i7-10700TE
- 8 x DI, and 4 x DO and 3 x RS-232/422/485
- 1 x M.2 B key, 1 x M.2 A-E key & 3 x Mini PCIe expansion slots
- Dual Hot-swappable SATA Storage RAID 0, 1, 5
- 9~48V DC Power Input
- Operating Temp.: -40~70°C
- 10 x GbE RJ45 (Supports 8 x PoE)
- Rolling Stock EN 50155 & EN 50121-3-2 Certified



POE



GPS



Wireless



Wide Range



Delay Time

Specification

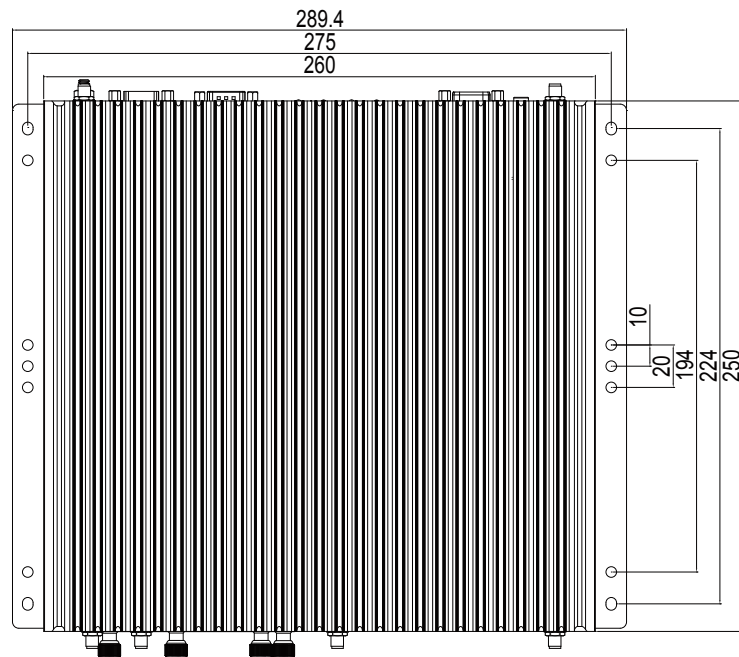
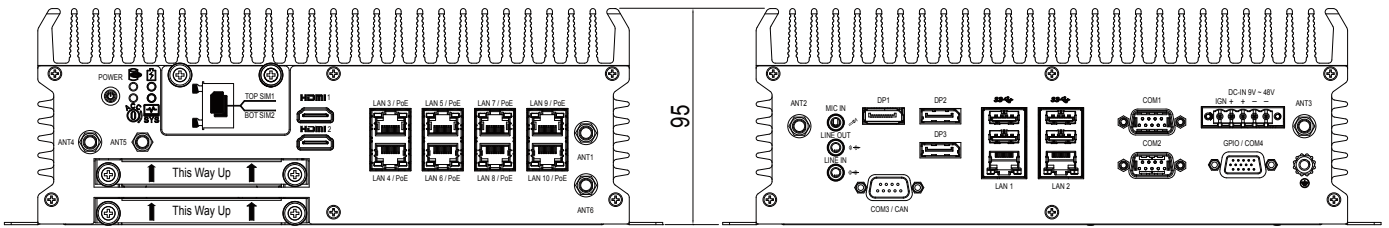
System	
CPU	Intel Gen10 Core i7-10700TE (16M Cache 2.0GHz up to 4.4GHz)
Chipset	Q470E
Memory	2 x DDR4 8GB SO-DIMM
LAN Chipset	9 x Intel i210-AT and 1 x i219LM (iAMT9.5 w/ i5, i7 only) Gb/s Ethernet Controllers Onboard Support PXE and WOL
Watchdog	1 ~ 255 Level Reset
TPM	2.0
I/O	
Serial Port	3 x RS 232/422/485 (option additional 1 x RS 232/422/485)
USB Port	4 x USB 3.2 5Gbps Ports
LAN	10 x RJ45 Ports (w/ 8 x M12X-Coded Connectors, Total Max.120W)
Video Port	3 x DP (Intel built-in GPU)
DIO Port	8 x DI (5~48VDC) and 4 x DO (5VDC, 100mA)
Audio	1 x Line-out, 1 x Line-in and 1 x Mic-in
Expansion Bus	1x M.2 A-E Key 2230 slot, 1 x M.2 B Key 3042 Slot w/ 2 x SIM Card Sockets for WWAN Patent No. : M592609 - Automatic SIM Card Detection 2 x Full Mini-PCIe Slots and 1 x Full Mini-PCIe Slot w/ USB interface only for WWAN sharing 2 x SIM Card Sockets with M.2 B Key 3042 Slot
Software	
Operating System	Windows 10 64bit, Ubuntu 20.04 64bit
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5300g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm

Storage	
Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x M.2 M key 2280 slot supports NVMe and SATA SSD *Thermal heatsink is required for M.2 storage. Please contact sales representative for more information.
Graphics	
CPU Built-in Graphics	Intel® UHD Graphics 630
Max. Resolution	4096 x 2340 @ 60Hz
Environmental	
Operating Temp.	-40°C ~ 70°C w/0.6 m/s airflow (for barebone system) *The operating temp. varies by accessories installed. Patent No. : M565941 - Thermal Cooling
Storage Temp.	-40°C ~ 80°C
Relative Humidity	10% RH – 90% RH (non-condensing)
Vibration (with SSD)	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A, E13, ECE R118, EN50155, EN45545-2 R25
Power Requirement	
Power Input	9V - 48V DC Power Input
Power Protection	Automatic Recovery Short Circuit Protection
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery Backup (Optional)	Internal Battery Kit for 10 Mins Operating (Charging Temp. 0~45°C, Discharging Temp. -10~60°C) **UPS backup time varies depending on actual overall system power consumption and battery is required to be charged before using. Patent No. : M447854 - Build-in Battery

All specifications are subject to change without notice.

Dimensions

Unit : mm



All specifications are subject to change without notice.