

ABOX-5210-M12X-i9-4S

Taiwan Patent No. M476134, M572614, M6014457

Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE (2 x RJ45 and 8 x M12 X Coded Connectors)/ 3 x COM/ 3 x DP/ 4 x USB 3.2 Gen 1x1/ 9-48V Input AI GPU Computing

Features

- Intel GEN 10th i9-10900TE
- 8 x DI, and 4 x DO and 3 x RS-232/422/485
- 3 x MiniPCIe expansion slots
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~70°C
- 2 x RJ45 Ports and 8 x M12 X Coded Connectors for GbE



POE



Wireless



Wide Range



Delay Time

Introduction

The ABOX-5210-M12X-i9 is powered by Intel GEN 10th i9-10900TE AI GPU Computing. Specifically designed for applications requiring performance with stability with economy, not requiring protection against extreme environment.

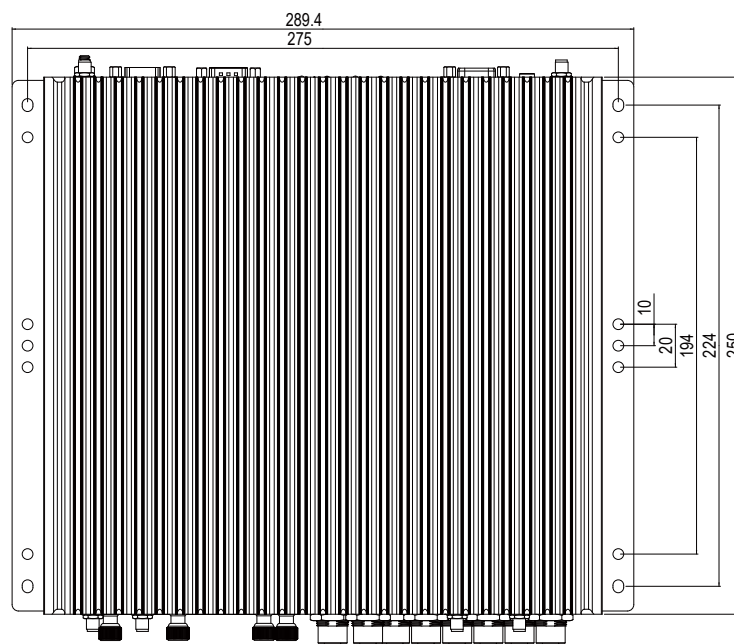
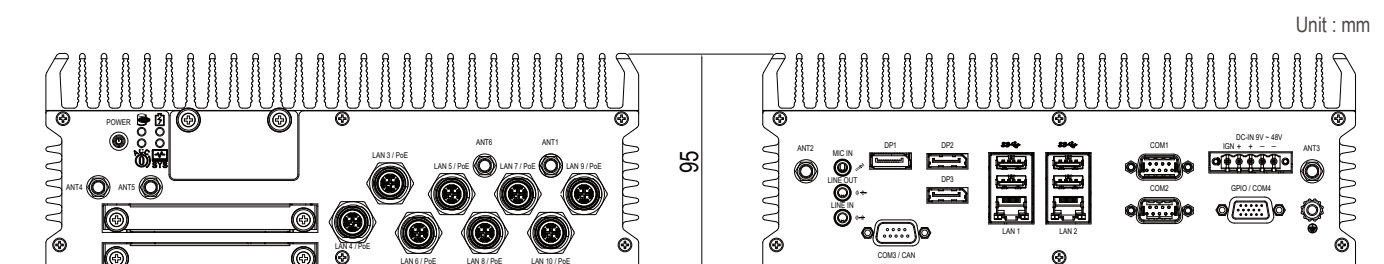
ABOX-5210-M12X supports multiple level of customization options such as customized Storage, Memory, I/Os, etc., Customer can select a Barebone chassis and customize it himself, or order from the three pre-configured models, This pre-configured ABOX-5210-M12x-i-S4 comes with DDR4 64GB, NVMe 1x 512GB, 2x SSD and 4x Serial Ports.

Specifications

System	
CPU	Intel Gen10 Core i9-10900TE (20M Cache 2.0GHz up to 4.5GHz)
Chipset	Q470E / W480E
Memory	2 x DDR4 2666/2933 MHz SO-DIMM up to 64GB (Optional ECC support)
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 Gen 1x1 Ports
LAN	2 x RJ45 Ports and 8 x M12 X coded connectors for GbE (Optional 8 x PoE total Max.120W)
Video Port	3 x DP
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	2 x Full Mini-PCIe Slots, 1 x Mini-PCIe w/ USB interface only for WWAN sharing 1x M.2 A-E Key 2230 slot, 1 x M.2 B Key 3042 slot
Graphics	
CPU Built-in Graphics	Intel® UHD Graphics 630 Max Resolution (DP1.2) : 4096x2304@60Hz

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 window for more information.
Environmental	
Operating Temp.	-40°C ~ 70°C w/0.6 m/S airflow 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, EN50155
Power Requirement	
Power Input	9V - 48V DC Power Input
Power Protection	Automatics Recovery Short Circuit Protection
Power Mgmt.	Vehicle Power Ignition
Power Off Control	Power off Delay Time Setting by BIOS and Software
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5300g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm

Dimensions



Please Scan The QR Code For More Information

Ordering Information

Part Number	ABOX-5210-M12X-i9-4S (1S = Standard Barebone Chassis, 2S = Chassis with 32GB with 512GB NVMe, 3S = Chassis with 64GB, NVMe 512GB, 4S = Chassis with 64GB, NVMe 512GB & 2x2TB DDS and 4x Serial Ports)
Description	Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 2 x RJ45 Ports and 8 x M12 X coded connectors for GbE/3 x COM/3 x DP/4 x USB 3.2 Gen 1
State of Origin	Made in Taiwan

Optional Accessories

DRAM	DDR4-2933 MHz SO-DIMM, 4GB~32GB, 0~70°C/-40~85°C
SSD	M.2 2280 B-M key NVMe TLC -40~85°C 64GB~1TB w/ Heatsink
	M.2 2280 B-M key SATA TLC -40~85°C 64GB~1TB w/ Heatsink
	2.5 inch SATA TLC -40~85°C 64GB~2TB
Wifi	M.2 2230 A-E key 802.3 a/b/g/n/ac
CANBUS	MiniPCIe CANBUS module
Battery backup kit	BAT-5200 Battery Kit, 5200m/h, -30~60°C, discharge -20~60°C, operating about 10 mins
Power adapter	AC/DC 220W/24V or 280W/24V power adapter