

ABOX-5210GC

Taiwan Patent No. M447854, M565941, M592609

Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE (Optional 8 x PoE)/ 3 x COM/ 3 x DP/ 2 x HDMI/ 4 x USB 3.0/ NVIDIA® GeForce GTX 1660 GPU/ 9-48V Input AI GPU Computing

Features

- Intel GEN 10th 10 Cores Xeon W-1290TE / i9-10900TE
- NVIDIA® GeForce GTX 1660 GPU
- Support 1408 CUDA Cores
- 8 x GPI, and 4 x GPO and 3 x RS-232/422/485
- 1 x M.2 B key, 1 x M.2 A-E key & 2 x miniPCIe expansion slots
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~60°C
- 10 x GbE RJ45 (Optional 8 x PoE and 8 x M12 connectors)



Introduction

The ABOX-5210G AI GPU Computing is powered by Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE with NVIDIA® GeForce GTX GPU. It can provide high computing performance on graphic processing by harnessing the power of its graphics processing unit (GPU). ABOX-5210G fanless box computers feature the Dual Hot Swappable SATA Storage RAID 0,1,5, which allows more flexibility for hardware maintenance and expansion.

ABOX-5210G offers the best solution for customers and it can be adapted to various industrial requirements, including: Smart Solutions (Smart Patrol, Smart Factory Automation Control System), Surveillance Systems (Bus Surveillance Fleet Management, Outdoor Video Surveillance System), and Visual Management (Automatic License Plate Recognition, Vision Control System, Mining Machines).

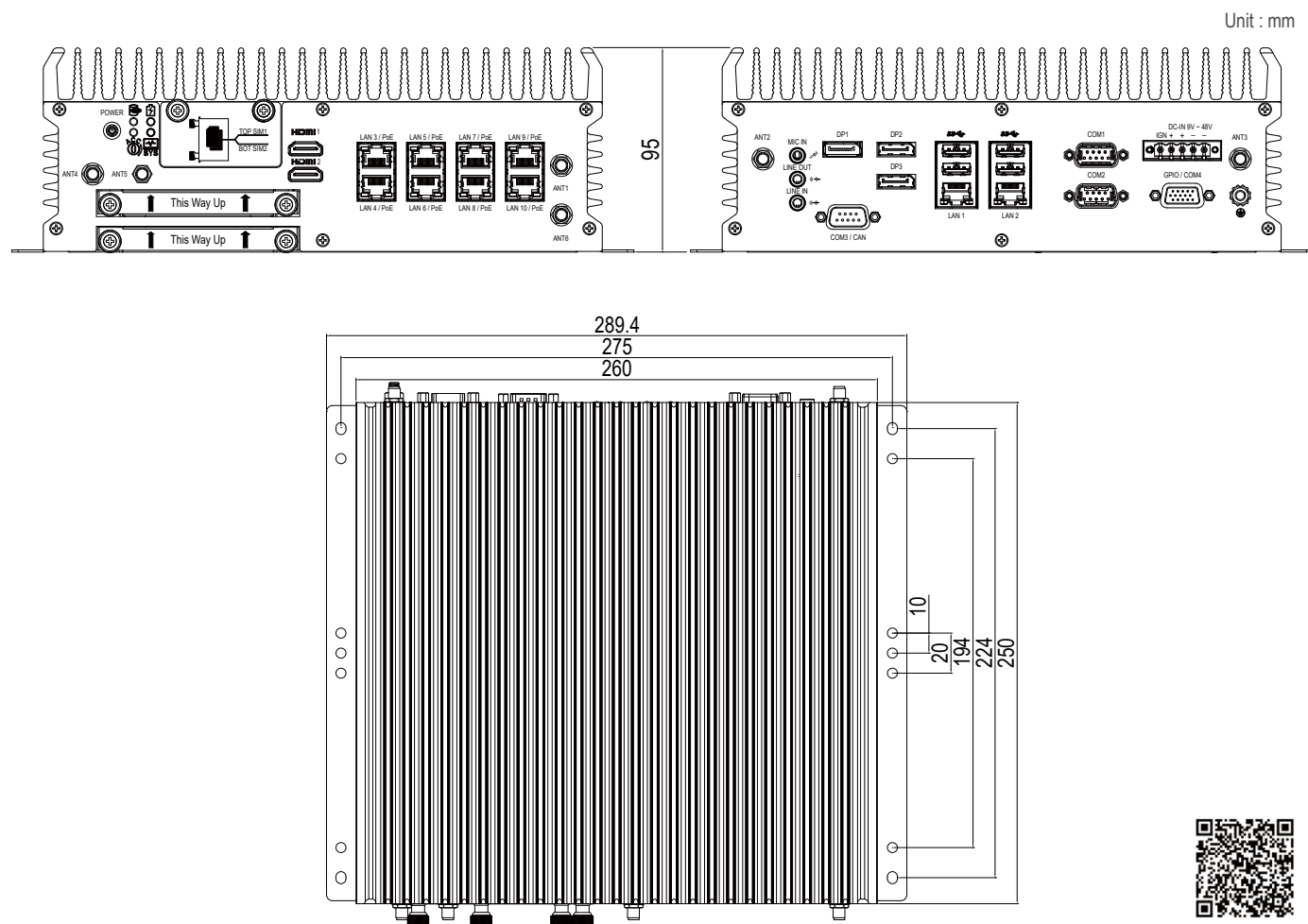
Specifications

System	
CPU	Intel Gen10 Xeon W-1290TE (20M Cache 2.0GHz up to 4.6GHz)*
	Intel Gen10 Core i9-10900TE (20M Cache 2.0GHz up to 4.5GHz)
	Intel Gen10 Core i7-10700TE (16M Cache 2.0GHz up to 4.4GHz)
	Intel Gen10 Core i5-10500TE (12M Cache 2.3GHz up to 3.7GHz)
	Intel Gen10 Core i3-10100TE (6M Cache 2.3GHz up to 3.6GHz)
	Intel Gen10 Core G5900TE (4M Cache 3.0GHz)
	* Use only with Intel W480
Chipset	Q470 / W480
Memory	2 x DDR4 2133 MHz SO-DIMM up to 32GB
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 3.0 Ports
LAN	10 x RJ45 Ports for GbE (Optional 8 with M12 connectors and 8 x PoE total Max.120W)
Video Port	3 x DP, 2 x HDMI Ports
DIO Port	8 x GPI and 4 x GPO
Audio	1 x Line-out, 1 x Line-in and 1 x Mic-in
Expansion Bus	2 x Full Mini-PCIe Slots, 1x M.2 A-E Key 2230/3030 slot, 1 x M.2 B Key 2240 for 2 x SIM Card Sockets for LTE Patent No. : M592609 - Automatic SIM Card Detection
Storage	
Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x M.2 M key slot support 2280 and 2242 (SATA interface)

Graphics	
Graphics	NVIDIA® GeForce GTX 1660 GPU (1408 CUDA Cores) w/6GB GDDR5
Resolution	Max Resolution (HDMI 2.0b) : 4096 x 2160 @ 60Hz Max Resolution (DP 1.2) : 4096 x 2340 @ 60Hz or 3840 x 2160 @ 60Hz w/HDR
Environmental	
Operating Temp.	-40°C ~ 60°C w/GTX1660 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 for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery Backup (Option)	Internal Battery Kit for 10 Mins Operating (P/N: BAT-5200 kit, Operating Temp. -20 ~ 60°C) Patent No. : M447854 - Build-in Battery
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5300g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm

All specifications are subject to change without notice.

Dimensions



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Ordering Information

Part Number	ABOX-5210XXP-YY (XX= Z1, i9, i7, i5, i3 or C1; P = PoE function; YY= GC (w/GTX1660)
Description	Intel Gen 10th 10 Cores Xeon, i9 CPU w/ 10 x GbE (Optional 8 x PoE)/3 x COM/ 3 x DP/ 2 x HDMI/4 x USB 3.0/ NVIDIA® GeForce GTX 1660 GPU/ 9-48V Input AI GPU Computing
State of Origin	Made in Taiwan

Optional Accessories

DRAM	SO-DIMM max.DDR4-2666,4GB~32GB,0~70°C/-40~85°C
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70°C/-40~85°C
M.2 SATA SSD	M.2 M key TLC -40~85°C, 2280 64GB~1TB / 2242 64GB~512GB
Wifi	M.2 802.3a/b/g/n/ac
Modem	LTE M.2 B Key 2240
GPS	GPS miniPCIe card
CANBUS	CANBUS miniPCIe card
Battery backup kit	BAT-5200 kit, 5200mA/h, -30~60°C, discharge -20~60°C, operating about 10 mins. Cannot be used w/GTX-1660
Power adapter	280W/24V power adaper
Fan kit	ABOX-5200 FAN kit, total size 260x253x120.7mm