

# ABOX-5210G

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 GPU/  
9-48V Input AI GPU Computing



## Features

- Intel GEN 10th 10 Cores Xeon W-1290TE / i9-10900TE
- NVIDIA® GeForce up to GTX 1660 GPU
- Support up to 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.: -40~70°C
- 10 x GbE RJ45 (Optional 8 x PoE and 8 x M12 connectors)

Taiwan Patent No. M592609

Taiwan Patent No. M447854

Taiwan Patent No. M565941 for thermal cooling



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

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 i3-10300TE (8M 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 2666 MHz SO-DIMM up to 32GB
LAN Chipset	9 x Intel i210-AT and 1 x i219LM 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 Taiwan Patent No. M592609 - Automatic SIM Card detection
Power Requirement	
Power Input	9V - 48V DC Power Input
Power Protection	Automatics Recovery Short Circuit Protection
Power Management	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery(UPS)	Internal Battery Kit for 10 Mins Operating (P/N: BAT-5200 kit, Operating Temp. -20 ~ 60°C) Patent No. : M447854 - Build-in Battery

Graphics	
Graphics	NVIDIA® GeForce GTX 1660 GPU (1408 CUDA Cores) w/6GB GDDR5 NVIDIA® GeForce GTX 1650 GPU (896 CUDA Cores) w/4GB GDDR5 NVIDIA® GeForce GTX 1050TI GPU (738 CUDA Cores) w/4GB 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
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)
Environmental	
Operating Temp.	-40°C ~ 70°C w/GTX1050TI and GTX1650 (-40°C ~ 60°C w/GTX1660) w/0.6 m/s airflow
Storage Temp.	-40°C ~ 80°C
Relative Humidity	10% RH - 90% RH (non-condensing)
Vibration (random)	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis with SSD
Vibration Operating	MIL-STD-810G, Method 514.6, Procedure I, Category 4
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
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5300g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm
Ordering Information	
Part Number	ABOX-5210XXP-YY (XX= Z1, i9, i7, i5, i3 or C1; P = PoE function; YY=GA (w/GTX1050TI), GB (w/GTX1650) or 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 GPU/ 9-48V Input AI GPU Computing
State of Origin	Made in Taiwan

All specifications are subject to change without notice.

