

Edge AI GPU Computing

# ABOX-5200

Taiwan Patent No. M447854

Intel 8th Gen Core i7/i5/i3 CPU w/ 10 x GbE (Optional for M12 connector and 8 x PoE total Max. 100W)/ 3 x COM/ 3 x DP/ 4 x USB 3.0/ 9-48V Input AI GPU Computing

## Features

- Intel 8th Gen Core i7/i5/i3
- 10 x GbE LAN (Optional for M12 connector and 8 x PoE total Max. 100W)
- 8 x GPI, 4 x GPO and 3 x RS-232/422/485
- 3 x Display Ports
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~70°C
- TPM 2.0



## Introduction

The ABOX-5200 is powered by Intel Coffee Lake 8th Gen Core i7/i5/i3 CPU with 10 x GbE/ 3 x COM/ 3 x DP/ 4 x USB 3.0/ 9-48V Fanless Box Computer. It can provide high computing performance on graphic processing by harnessing the power of its graphics processing unit (GPU). ABOX-5200 fanless box computers feature the Dual Hot Swappable SATA Storage RAID 0,1,5, which allows more flexibility for hardware maintenance and expansion.

ABOX-5200 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 system (Bus Surveillance Fleet Management, Outdoor Video Surveillance System), and Visual management (Automatic License Plate Recognition, Vision Control System, Mining Machines).

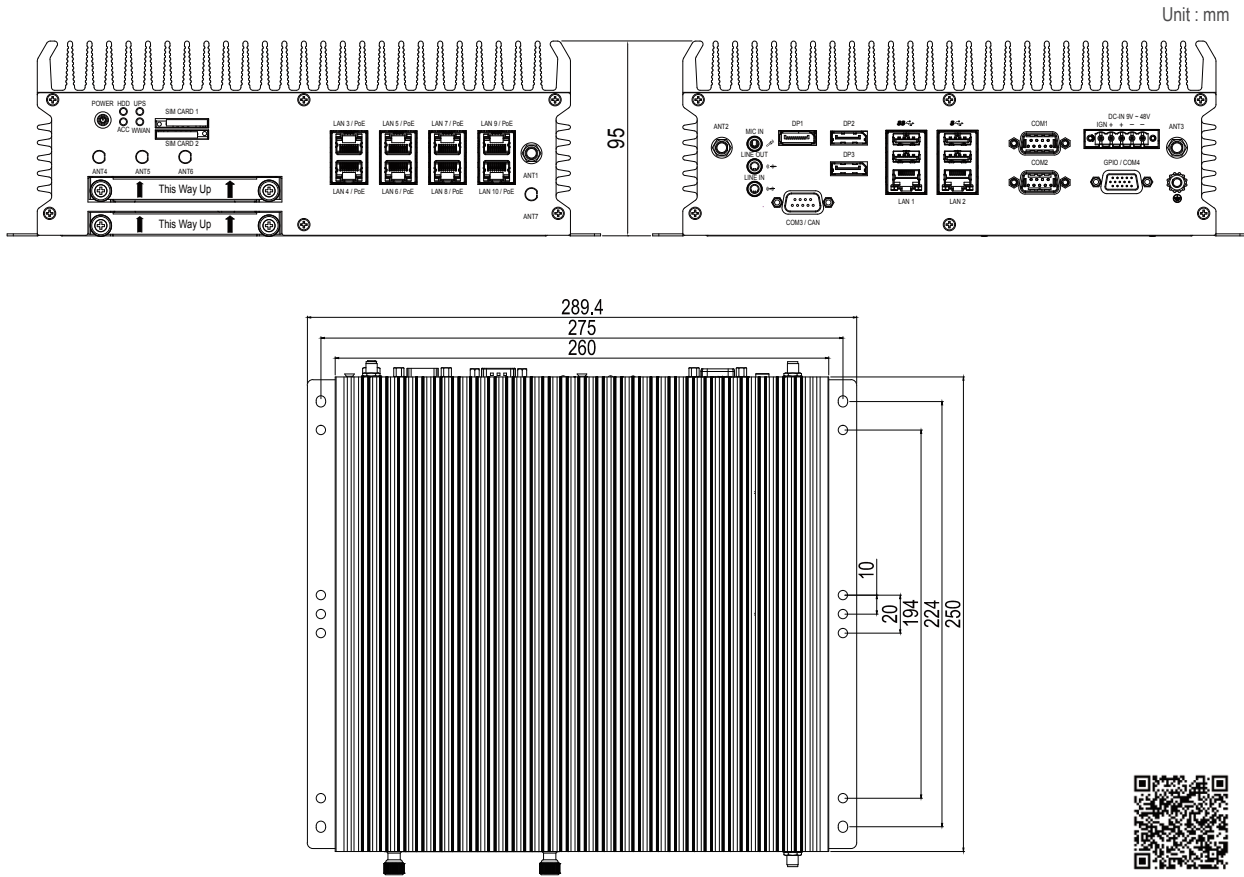
## Specifications

System	
<b>CPU</b>	Intel Gen8 Core i7-8700T (12M Cache 2.4GHz up to 4.0GHz) Intel Gen8 Core i5-8500T (9M Cache 2.1GHz up to 3.5GHz) Intel Gen8 Core i3-8100T (6M Cache 3.1GHz) Intel Gen8 Celeron G4900T (2M Cache 2.9GHz)
<b>Memory</b>	2 x DDR4 2400 MHz SO-DIMM up to 32GB
<b>LAN Chipset</b>	9 x Intel i210-AT and 1 x i219LM (iAMT9.5 w/ i5, i7 only) Gb/s Ethernet Controllers Onboard Support PXE and WOL
<b>Watchdog</b>	1 ~ 255 Level Reset
<b>TPM</b>	2.0
I/O	
<b>Serial Port</b>	3 x RS-232/422/485 (Optional Max 4 x RS-232/422/485)
<b>USB Port</b>	4 x USB 3.0 Ports
<b>LAN</b>	10 x RJ45 Ports for GbE (Optional for M12 connector and 8 x PoE total Max. 100W)
<b>Video Port</b>	3 x DP Ports
<b>DIO Port</b>	8 x GPI and 4 x GPO
<b>Audio</b>	1 x Line-out, 1 x Line-in and 1 x Mic-in
<b>Expansion Bus</b>	3 x Full Mini-PCIe Slots and 1x M.2 A-E Key 2230 slot (2 x SIM Card Sockets for 3G/LTE)
Software	
<b>Operating System</b>	Win 10, Ubuntu 18.04 64bit
Graphics	
<b>Graphics</b>	Intel® UHD Graphics 630
<b>Resolution</b>	Max Resolution (DP) : 4096x2304@60Hz

Environmental	
<b>Operating Temp.</b>	-40°C ~ 70°C, ambient w/ 0.6m/s airflow
<b>Storage Temp.</b>	-40°C ~ 80°C
<b>Relative Humidity</b>	10% RH ~ 90% RH (non-condensing)
<b>Vibration (with SSD)</b>	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating
<b>Shock</b>	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
<b>Certifications</b>	CE, FCC Class A, E13
Storage	
<b>Type</b>	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x mSATA
Power Requirement	
<b>Power Input</b>	9V - 48V DC Power Input
<b>Power Protection</b>	Automatics Recovery Short Circuit Protection
<b>Power Mgmt.</b>	Vehicle Power Ignition for Variety Vehicle
<b>Power Off Control</b>	Power off Delay Time Setting by BIOS and Software
<b>Battery (UPS)</b>	Internal Battery Kit for 10 Mins Operating (optional) *UPS backup time varies depending on actual overall system power consumption. <b>Patent No. : M447854 - Build-in Battery</b>
Mechanical	
<b>Construction</b>	Aluminum Alloy
<b>Mounting</b>	Wall-mount
<b>Weight</b>	5190g (Barebone)
<b>Dimensions</b>	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-5200P-i7 Optional for i5/i3/C1 (with PoE) ABOX-5200-i7 Optional for i5/i3/C1
Description	Intel 8th Gen Core i7/i5/i3 CPU w/ 10 x GbE/ 3 x COM/ 3 x DP/ 4 x USB 3.0/ 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
mSATA	MLC 16G~512GB, 0~70°C/-40~85°C
Wifi	WiFi M.2 2230 A-E key module
Modem	LTE miniPCIe card
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.
Power adapter	AC/DC 220W/24V or 280W/24V power adaper
Fan kit	ABOX-5200 FAN kit, total size 260x253x120.7mm

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## Assured Systems

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