

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).

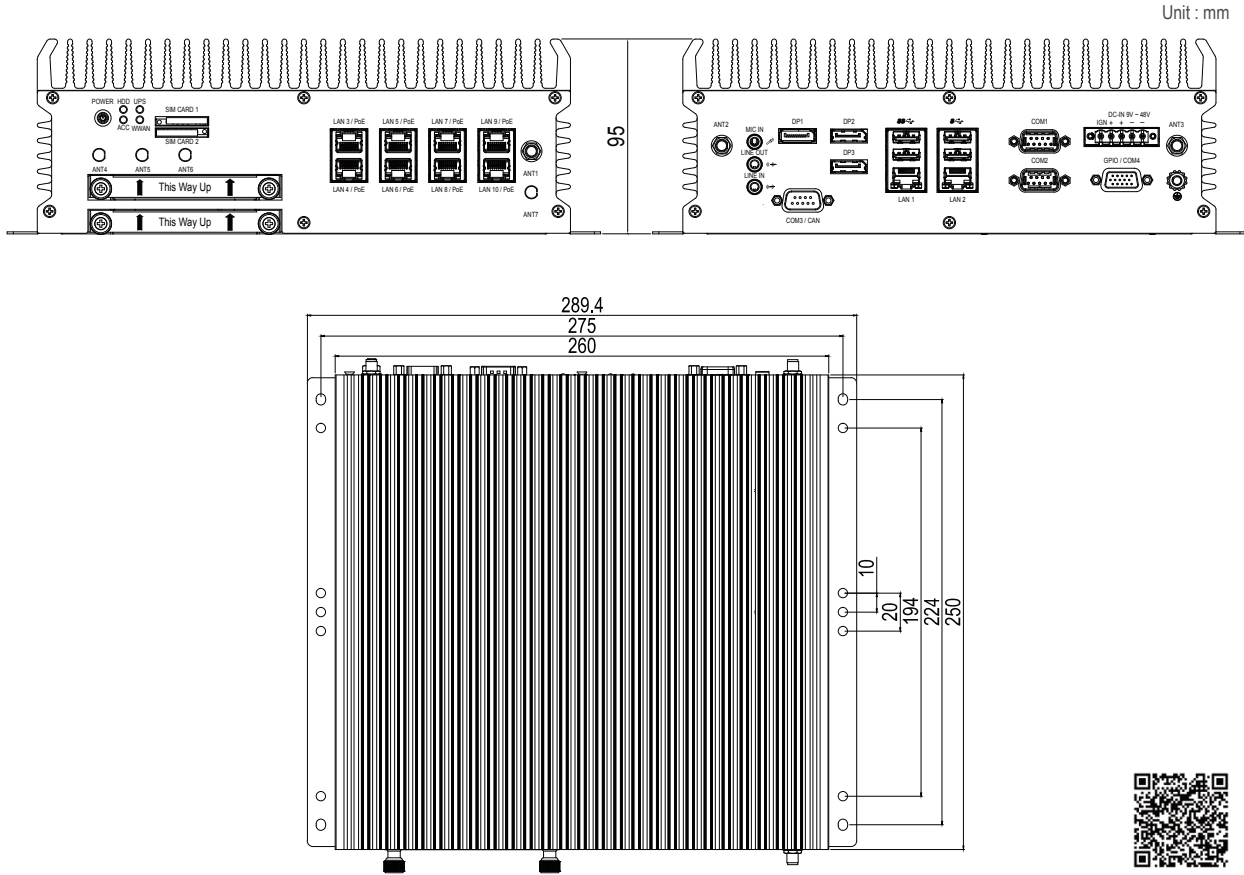
Specifications

System	
CPU	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)
Memory	2 x DDR4 2400 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 (Optional Max 4 x RS-232/422/485)
USB Port	4 x USB 3.0 Ports
LAN	10 x RJ45 Ports for GbE (Optional for M12 connector and 8 x PoE total Max. 100W)
Video Port	3 x DP 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	3 x Full Mini-PCle Slots and 1x M.2 A-E Key 2230 slot (2 x SIM Card Sockets for 3G/LTE)
Software	
Operating System	Win 10, Ubuntu 18.04 64bit
Graphics	
Graphics	Intel® UHD Graphics 630
Resolution	Max Resolution (DP) : 4096x2304@60Hz

Environmental	
Operating Temp.	-40°C ~ 70°C, ambient w/ 0.6m/s airflow
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
Storage	
Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x mSATA
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 (UPS)	Internal Battery Kit for 10 Mins Operating (optional) *UPS backup time varies depending on actual overall system power consumption. Patent No. : M447854 - Build-in Battery
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5190g (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-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, 5200mAh, -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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