

ABOX-5000G2

Intel 6th/7th-Gen Quad Core Xeon/ Core i7/i5/i3
CPU w/ 6 x GbE/ 3 x COM/ 7 x HDMI/ 4 USB 3.0/
NVIDIA® GeForce GTX 1050 GPU/ 9-48V Input
AI GPU Computing

Features

- Intel 6th/7th-Gen Quad Core Xeon/Core i7 CPU
- NVIDIA® GeForce GTX 1050 GPU
- Support 768 CUDA Cores
- 8 x GPI and 4 x GPO and 3 x RS-232/422/485
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~70°C
- 6 x GbE LAN (Optional for 4 x PoE)



Taiwan Patent No. M447854

Taiwan Patent No. M565941
for thermal cooling

Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

System

CPU	Intel Xeon E3-1268L v5 (8M, cache 2.4~3.4GHz)
	Intel Gen6 Core i7-6700TE (8M Cache 2.4GHz up to 3.4GHz)
	Intel Gen6 Core i5-6500TE (6M Cache 2.3GHz up to 3.3GHz)
	Intel Gen6 Core i3-6100TE (4M Cache 2.7GHz)
Memory	2 x DDR4 2133 MHz SO-DIMM up to 32GB
Chipset	Intel Q170 for Intel 6th-Gen Skylake-S Core-i series Intel C236 for Xeon Quad Core E3-1268L v5 (optional)
LAN Chipset	5 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 (Auto Direction Control)
USB Port	4 x USB 3.0 Ports
LAN	6 x RJ45 Ports for GbE (Optional for 4 x PoE total Max.100w)
Video Port	7 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	3 x Full Mini-PCle Slots and 1x M.2 A-E Key 2230 slot (2 x SIM Card Sockets for 3G/LTE)

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 Order No.: ABOX-5000G1-BAT, size: 260 x 226 x 95mm Patent No. : M447854 - Build-in Battery

Software

Operating System	Win 10, Ubuntu 16.04 64bit
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Storage

Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x mSATA
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Graphics

Graphics	NVIDIA® GeForce GTX 1050 GPU (768 CUDA Cores) Support for OpenGL 4.5 and OpenCL™ 1.2 Support for DirectX® 12 (Feature Level 12_0) features
Resolution	Max Resolution (HDMI 2.0b) :4096x2160@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 (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

Mechanical

Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	3860g (Barebone)
Dimensions	260(L) x 226(W) x 89(H) mm

Ordering Information

Part Number	ABOX-5000G2-i7 Optional for i5/i3/C1 (with PoE) ABOX-5000G2-i7 Optional for i5/i3/C1
Description	Intel 6th/7th-Gen Quad Core Xeon/ i7/i5/i3 CPU w/ 6 GbE/ 4 COM/ 7 HDMI/ 4 USB 3.0/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V Input AI GPU Computing
State of Origin	Made in Taiwan