

# A BOX-5000

Intel 6th/7th-Gen Quad Core Xeon/ Core i7/i5/i3 CPU w/ 4 x GbE/ 4 x ISO COM/ 2 x DP/ VGA/ 4 USB 3.0 Fast Expansable Slot 9-36V Fanless Computer

AI GPU Computing

In-Vehicle Computing

Embedded Computing

Video Surveillance



Delay Time



Power Ignition



Wide Range



Wireless



Battery backup

Taiwan Patent No. M447854  
Taiwan Patent No. M448011

## System

<b>CPU</b>	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)
<b>Memory</b>	2 x DDR4 2133 MHz SO-DIMM up to 32GB
<b>Chipset</b>	Intel® Q170/C236 Platform Controller Hub
<b>LAN Chipset</b>	3 x Intel i210-AT and 1 x i219LM (support iAMT) 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>	4 x RS 232/422/485 w/1.5KVrms isolation (Auto Direction Control)
<b>USB Port</b>	4 x USB 3.0 Ports
<b>LAN</b>	4 x RJ45 Ports for GbE (Optional for 4 x POE 15.4W per port)
<b>Video Port</b>	2 x Display Port and 1 x VGA Port (Triple Independent Display)
<b>DIO Port</b>	8 x GPI and 4 x GPO connector w/1.5KVrms isolation
<b>Audio</b>	1 x Line-out and 1 x Mic-in (Line-in Optional)
<b>Expansion Bus</b>	3 Full and 1 Half Mini-PCIe Slot (2 x SIM Card Socket for 3G/LTE)
<b>FES Expansion</b>	Support PCI-E, USB, SMBus, GPIO and SATA (Customized for Customer without NRE charge)

## Graphics

<b>Graphics</b>	Intel® HD Graphics 530 DirectX Video Acceleration (DXVA) for Accelerating Video Processing - Full AVC/VC1/MPEG2 HW Decode Supports DirectX 11/10.1/10/9 and OpenGL 4.0
<b>Resolution</b>	Max Resolution (HDMI1.4) : 4096x2304@24Hz Max Resolution (DP) : 4096x2304@60Hz

## Storage

<b>Type</b>	2 x 2.5" Drive Bay for SATA Type HDD/SSD, support RAID 0, 1, 5 1 x SATA DOM
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## Features

- Intel® 6th/7th-Gen Quad Core Xeon/ Core i7 LGA1151 CPU
- 4 x RS-232/422/485 with 1.5KVrms isolated
- 8 x GPI and 4 x GPO with 1.5KVrms isolated
- 4 x GbE LAN (optional for 4 x PoE)
- Dual Hot Swappable SATA Storage
- 9-36VDC input and operating Temp.: -40 ~ 70°C
- Fast Expansable Slot support PCI-E, USB, SMBus, GPIO and SATA

## Power Requirement

<b>Power Input</b>	9V - 36V DC Power Input
<b>Power Protection</b>	Automatics Recovery Short Circuit Protection
<b>Power Management</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) <b>Patent No. : M447854 - Build-in Battery</b>

## Environmental

<b>Operating Temp.</b>	-40°C ~ 70°C (Default CPU 35Watt)
<b>Storage Temp.</b>	-40°C ~ 80°C
<b>Relative Humidity</b>	0% RH - 95% RH
<b>Vibration(random)</b>	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis with SSD
<b>Vibration Operating</b>	MIL-STD-810G, Method 514.6, Procedure I, Category 4
<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

## Mechanical

<b>Construction</b>	Aluminum Alloy
<b>Mounting</b>	Wall-mount
<b>Weight</b>	3860g (Barebone)
<b>Dimensions</b>	240(L) x 226(W) x 79(H) mm

## Ordering Information

<b>Part Number</b>	A BOX-5000P-i7 Optional for i5/i3/C1 (with PoE) A BOX-5000-i7 Optional for i5/i3/C1
<b>Description</b>	Intel 6th/7th-Gen Quad Core Xeon/ Core i7/i5/i3 CPU w/ 4 GbE/ 4 ISO COM/ 2 DP/ VGA/ 4 USB 3.0 Fast Expansable Slot/ 9-36V Fanless Computer