

ABOX-5000

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



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

Taiwan Patent No. M447854
Taiwan Patent No. M448011

System

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|--------------------|---|
| CPU | 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) Intel Pentium Processor G4400TE (3M Cache, 2.40 GHz) |
| Memory | 2 x DDR4 2133 MHz SO-DIMM up to 32GB |
| Chipset | Intel® Q170 Platform Controller Hub |
| LAN Chipset | 3 x Intel i210-AT and 1 x i219LM (support iAMT) Gb/s Ethernet Controllers Onboard Support PXE and WOL |
| Watchdog | 1 ~ 255 Level Reset |

I/O

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|----------------------|---|
| Serial Port | 4 x RS 232/422/485 w/1.5KVrms isolation (Auto Direction Control) |
| USB Port | 4 x USB 3.0 Ports |
| LAN | 4 x RJ45 Ports for GbE (Optional for 4 x POE 15.4W per port) |
| Video Port | 2 x Display Port and 1 x VGA Port (Triple Independent Display) |
| DIO Port | 8 x GPI and 4 x GPO connector w/1.5KVrms isolation |
| Audio | 1 x Line-out and 1 x Mic-in (Line-in Optional) |
| Expansion Bus | 3 Full and 1 Half Mini-PCIe Slot (2 x SIM Card Socket for 3G/LTE) |
| FES Expansion | Support PCI-E, USB, SMBus, GPIO and SATA (Customized for Customer without NRE charge) |

Graphics

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|-------------------|--|
| Graphics | 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 |
| Resolution | Max Resolution (HDMI1.4) : 4096x2304@24Hz Max Resolution (DP) : 4096x2304@60Hz |

Storage

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|-------------|---|
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD, Support RAID 0, 1 1 x SATA DOM |
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Features

- Intel® 6th-Gen Quad 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 Expansibile Slot support PCI-E, USB, SMBus, GPIO and SATA

Power Requirement

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|--------------------------|---|
| Power Input | 9V - 36V 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 (Optional) Patent No. : M447854 - Build-in Battery |

Environmental

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|----------------------------|---|
| Operating Temp. | -40°C ~ 70°C (Default CPU 17Watt) |
| Storage Temp. | -40°C ~ 80°C |
| Relative Humidity | 0% RH - 95% RH |
| Vibration(random) | 2.5g@5~500 Hz with SSD |
| Vibration Operating | MIL-STD-810G, Method 514.5, Category 20, Ground Vehicle-Highway |
| Truck Storage | MIL-STD-810G, Method 514.5, Category 24, Integrity Test |
| Shock | Operating: MIL-STD-810G, Method 516.5, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD |
| Crash Hazard | MIL-STD-810G, Method 516.5, Procedure V, Ground equipment=100g |
| Certifications | CE, FCC Class A |

Mechanical

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|---------------------|---|
| Construction | Aluminum Alloy |
| Mounting | Wall-mount, VESA-mount, Din Rail Mounting Kit |
| Weight | 3860g (Barebone) |
| Dimensions | 240(L) x 226(W) x 79(H) mm |

Ordering Information

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| Part Number | ABOX-5000-i7S Optional for i5S/i3S/C1S |
| Description | Intel 6th-Gen Skylake Core i7/i5/i3 CPU w/ 4 GbE/ 4 ISO COM/ 2 DP/ VGA/ 4 USB 3.0/ Fast Expansibile Slot/ 9-36V Fanless Computer |