

ABOX-5000G1

Intel 6th/7th-Gen Quad Core i7/i5/i3 CPU w/ 6 GbE/ 4 COM/ 7 HDMI/ 4 USB 3.0/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V/ In-Vehicle Fanless Computer



Delay Time



Power Ignition



Wide Range



Wireless



Battery Backup

Features

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

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 | 5 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 (Auto Direction Control) |
| USB Port | 4 x USB 3.0 Ports |
| LAN | 6 x RJ45 Ports for GbE (Optional for 4 x POE 15.4W per port) |
| 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-PCIe Slots and 1x M.2 A-E Key 2280 slot (2 x SIM Card Sockets for 3G/LTE) |

Graphics

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|-------------------|--|
| 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) : 7680x3840@60Hz |

Storage

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|-------------|--|
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0,1,5 1 x mSATA |
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Power Requirement

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|--------------------------|---|
| 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 (Optional) Patent No. : M447854 - Build-in Battery |

Environmental

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|----------------------------|---|
| Operating Temp. | -40°C ~ 70°C |
| Storage Temp. | -40°C ~ 80°C |
| Relative Humidity | 0% RH – 95% RH |
| 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

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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-5000G1-i7S Optional for i5S/i3S/C1S |
| Description | Intel 6th/7th-Gen Quad Core i7/i5/i3 CPU w/ 6 GbE/ 4 COM/ 7 HDMI/ 4 USB 3.0/ NVIDIA® GeForce GTX 1050 GPU/ 9-48V/ In-Vehicle Fanless Computer |