

ABOX-5000

Taiwan Patent No. M447854

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

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 and additional 4 x GbE / PoE)
- Dual Hot Swappable SATA Storage
- 9-36V DC input and operating Temp.: -40 ~ 70°C
- Fast Expansable Slot support PCI-E, USB, SMBus, GPIO and SATA



Introduction

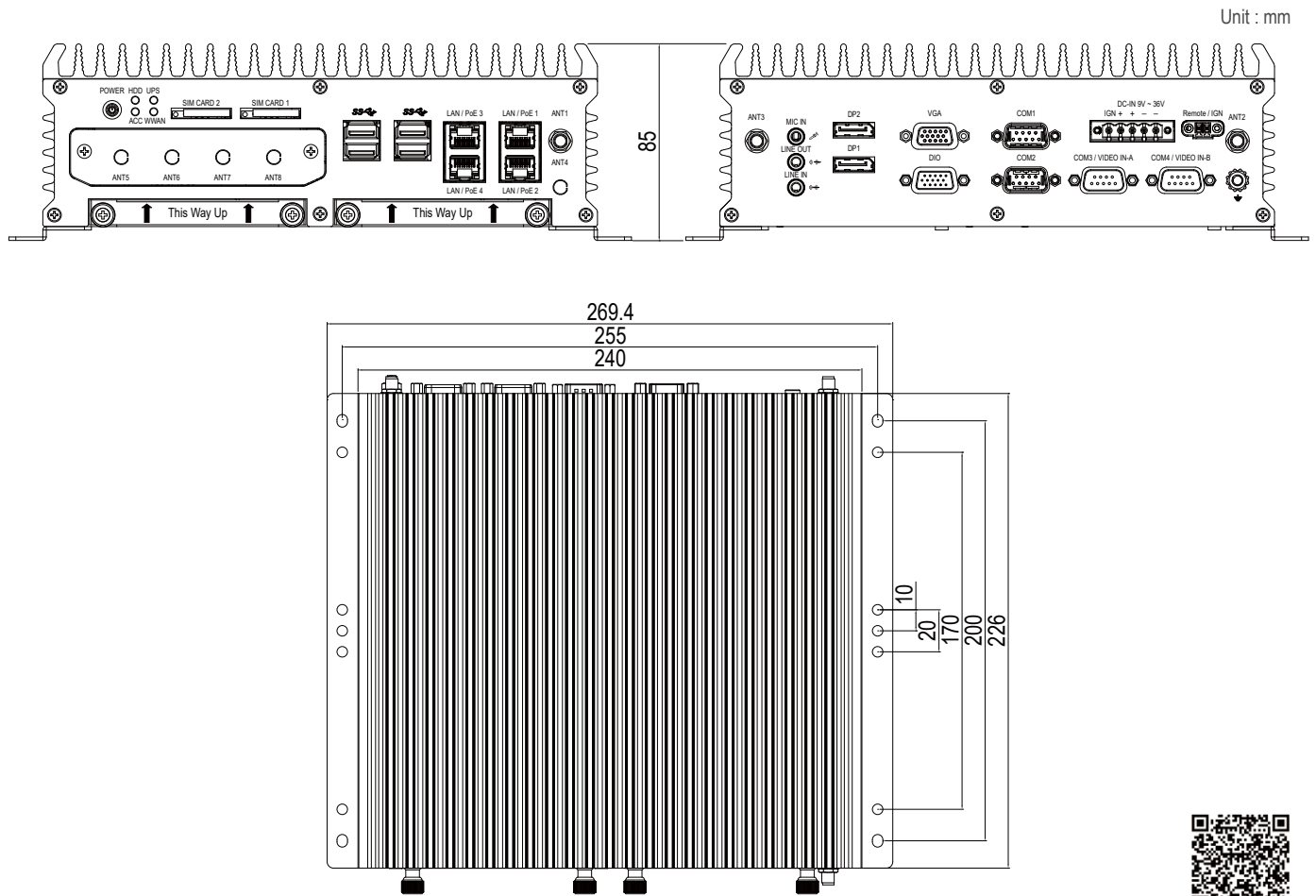
The ABOX-5000 Fanless Box Computers are designed for multiple applications of industrial usage such as industrial control unit and intelligent / automatic factory. It is powered by Intel® 6th-Gen Skylake Core i7/i5/i3 CPU with 4 GbE/ 4 ISO COM/ 2 DP/ VGA/ 4 USB 3.0/ Fast Expansable Slot/ 9-36V. ABOX-5000 was designed for multiple applications of industrial usage such as industrial control unit, mining machines and intelligent / automatic factory. In addition, the Fast Expansable Slot enhanced the expandable interfaces with mini PCIe slot, USB ports, SM Bus, GPIO Ports, PoE Ports and SATA slots. As for the power management, it has power protection with automatic recovery short circuit protection and vehicle power ignition for variety vehicle.

Specifications

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	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 Bus, USB Bus, SMBus, GPIO and SATA Bus (Customized for Customer without NRE charge)
Graphics	
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

Software	
Operating System	Win 10, Ubuntu 16.04 64bit
Environmental	
Operating Temp.	-40°C ~ 70°C (Default CPU 35Watt) , 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 SATA DOM
Power Requirement	
Power Input	9V - 36V 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) Patent No. : M447854 - Build-in Battery
Mechanical	
Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	3860g (Barebone)
Dimensions	240(L) x 226(W) x 79(H) mm

Dimensions



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Ordering Information

Part Number	ABOX-5000P-i7 Optional for i5/i3/C1 (with PoE) ABOX-5000-i7 Optional for i5/i3/C1
Description	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 Expansibile Slot/9-36V Fanless Computer
State of Origin	Made in Taiwan

Optional Accessories

DRAM	SO-DIMM max.DDR4-2133,4GB~32GB,0~70°C/-40~85°C
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70°C/-40~85°C
SATA DOM	MLC 8G~128GB, 0~70C/-40~85C
Wifi	Wifi miniPCle half size card 802.3a/b/g/n/ac
Modem	LTE miniPCle card
GPS	GPS miniPCle card
CANBUS	CANBUS miniPCle card
Extension for 3 x MINI-PCle	FES-1 kit, 3 x Modem miniPCle w/ 6*SIM cards
Extension for 4 x GbE	FES-4L kit, 4 x GeE LAN
Battery backup kit	BAT-5000 kit, 2300mA/h, -30~60°C, discharge -20~60°C, operating about 10 mins.
Power adapter	AC/DC 220W/24V power adapter