ABOX-E7DS

AI Edge vision computing Box PC

Intel 6th/7th/8th/9th Core i7/i5/i3 35/65W Desktop processors

Specification

V3.0

Key features:

- Support Intel® 6th/7th/8th/9th Core™ i7/i5/i3 desktop multicore processors;
- Q170 (Alternative C236) industrial chipset;
- 2 DDR4 SO-DIMM, Dual channels, MAX. up to 32GB;
- 3 Display ports, support 3 hard disks storage;
- Max. expansion up to 10 USB ports, 6 Intel RJ45 ports, 6 COM ports;
- Max. up to support Cambricon MLU270-S4 AI card (128TOPS);
- Max. up to support NVIDIA GeForce GTX1660TI graphic card;
- 2 standard PCIe expansion slots;
- Support wide voltage DC 9V ~ 36V power input.

Product Image

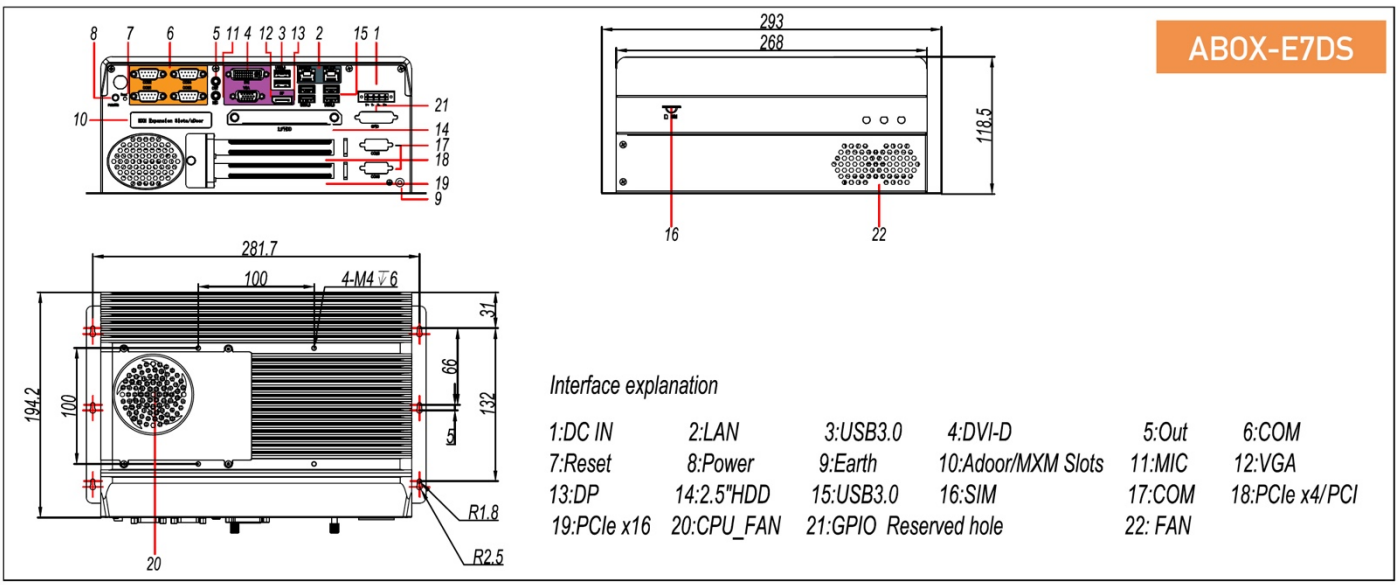




Technical Data

System	
CPU	Intel® 6th/7th/8th/9th Core™ i3/i5/i7 Desktop LGA1151 CPU, TDP=65W (Optional support 35W)
Chipset	Intel® Q170 Chipset (Alternative C236 chipset)
AI computing	Max. support Cambricon MLU 270-S4 intelligent acceleration card, 128TSOP (INT8)
	Max. support NVIDIA GeForce GTX1660TI graphic card
Memory	2 x DDR4 SO-DIMM, 2133/2400 MHz, Dual channels, Max. single RAM up to 16GB, Max. up to 32GB
Storage	1 x 2.5″ HDD, support 5~9.5mm, hot pluggable
	1 x 2.5″ HDD, support 5~9.5mm，Internal
	1 x M.2 SATA 3.0（22*42mm），Internal
Display	1 x DP (Max. support resolution: 4096x2304 x24bpp, @ 60Hz)
	1 x DVI-D (Max. support resolution: 1920x1200, @60Hz)
	1 x VGA (Max. support resolution: 1920x1200, @60Hz)
Network	2 x Intel® Ethernet Connection; LAN1: I210/I211-AT, LAN2: I219-LM, support WOL
Wireless	1 x Mini-PCIE (Optional support 3G/4G/LTE, Wi-FI/BT expansion)
Audio	1 x Mic-in + 1 x Audio-out
USB	6 x USB 3.0
COM	4 x DB9 RS232 (COM1/COM2 support RS485/RS422/RS232, BIOS controllable)
GPIO	8* GPIO, 1* 20 pins Phenix terminal (Optional)
Expansion	1* MXM expansion modules (support 4x GLAN)
	1* aDoor expansion modules
	1* PCIe 3.0 16x + 1* PCIe 3.0 4x; Or 1* PCIe 3.0 16x + 1* PCI (Card length < 185mm, TDP<130W)
Power	DC 9~36V input (1 x 4pin 5.08 phoenix terminal, with hole lock)
LED/Switch	1 x power button (including blue LED light)
Watchdog	Programmable 255 seconds
OS	6th Core™: Windows 7/8.1/10 32 or 64 bits, Linux; 7th Core™: Windows 7/8.1/10 64 bits, Linux
	8th /9th Core™: Windows 10 64 bits, Linux
RAID	0, 1
Structure	
Material	SGCC/Aluminum-alloy
Treatment	Hard anodizing treatment, scratch resistant
Color	Iron grey, industrial grey color
Cooling	PWM intelligent fan
Weight	4.65kg (Net weight)
Dimension	268mm(L) x 194.2mm(W) x 118.5mm(H)
Case fan	2* 4010 Intelligent fans
Mounting	Desktop, wall mount, VESA mount
Environmental	
Operation temp.	Operating temp.: -20~60°C (Industrial SSD)
Storage temp.	Storage temp.: -40~80°C
Humidity	10%~90%@40°C (non-condensation)
Vibration	SSD：3Grms@5~500Hz，random，1 hr/axis；
Shock	10G/peak (11ms sec)

Dimension & Interface



Ordering Information

ABOX-E7DS-xxxx	Intel LGA1151 xxxx 65W CPUs, 1*DVI-D, 1*DP, 1*VGA, 2*RJ45, 6*USB3.0, 4*RS232, Mic-In/Line-Out, DC 9~36V, 2 PCIe slots
Memory	DDR4 4G/8G/16G/32GB
Storage	SSD: 32GB/64GB/128GB/256GB/512GB/1TB HDD: 500GB/1TB
Wireless modules	Wifi: 802.11b/g/n Mini PCIe 150M 3G/4G: All network 4G module
MXM modules	
aDoor Modules	

Note: **xxxx refer to CPU Code**

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