ABOX-E7S

High performance Industrial Box Computer

Intel 6/7th I7/I5/I3 Desktop multi-core processors, with PCIe and MXM expansion
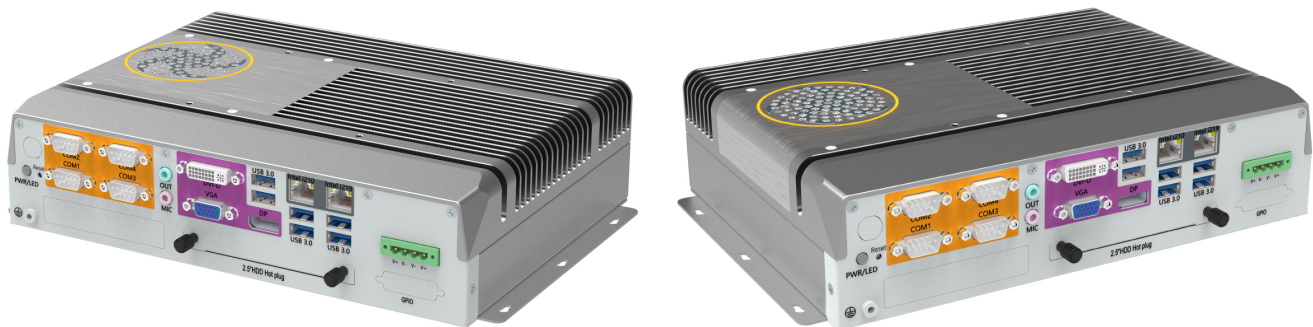
Specification

V2.0

Key features:

◆ Support Intel® 6/7th Core™ i7/i5/i3 Desktop processors;

◆ Q170 industrial chipset;

◆ 2x DDR4 SO-DIMM, max. up to 32GB, dual channel support;

◆ 3x Display interface;

◆ Max. expansion up to 10 USB ports;

◆ Max. expansion up to 6 Intel RJ45 ports;

◆ Max. expansion up to 6 serial ports;

◆ Support 3 kinds of hard disk storage;
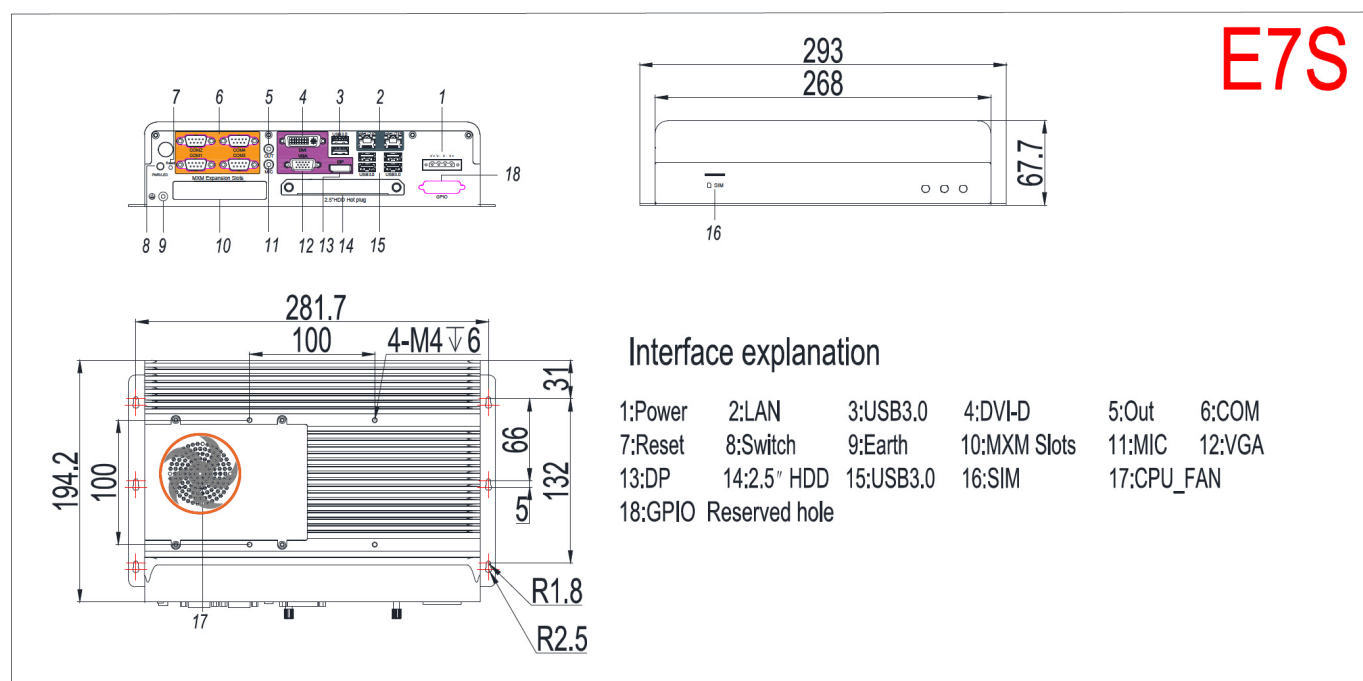
◆ Support 18~36V DC power supply.

Product Image

Specification parameter

System

Processor	CPU	Intel· 6/7th Core™ i3/i5/i7 Desktop LGA1151 CPU, TDP=65W (PWM intelligent fan active heat dissipation)
	Chipset	Intel· Q170 Chipset
	BIOS	AMI SPI 64Mb, support ACPI, CPU temperature, system voltage monitoring
Memory	Interface	2 x DDR4 SO-DIMM, @1.2V, 1866/2133/2400/2666 MHz
	Capacity	Max. single RAM up to 16G, dual channels, expansion up to 32GB
Storage	Interface	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	Chipset	CPU Integrated Intel® HD Graphics, support DirectX12
	Ports	1 x DP (Max. support resolution:4096x2304 x24bpp, @ 60Hz) 1 x DVI-D (Max. support resolution: 1920x1200, @30Hz) 1 x VGA (Max. support resolution: 2048x1536)
Network	Chip	2 x Intel® Ethernet Connection; LAN1: I210-AT, LAN2: I219-LM, support WOL
	Wireless	1 x Mini-PCIE (Half/Full, support 802.11 b/g/n, 3G/4G Optional) 1 x SIM slot
AUDIO	Chipset	Realtek ALC662VD
	Ports	1 x Mic-in + 1 x Audio-out
I/O	USB	6 x USB 3.0
	COM	4 x DB9 RS232 (COM1/COM2 support RS485/RS422/RS232, BIOS controllable)
Expansion I/O	Front signal	1x 6pin front panel controlled signal
	Watchdog	1 x Internal USB 2.0 (optional)
	COM	2 x 9pin COM pin-header (S232)
	GPIO	8 x GPIO (4 in 4 out, DI low level, DO high level, DI/DO BIOS configurable, Optional 8 x GPIO (4 in 4 out, photoelectric isolated, 5V~40V wide voltage input, OMRON relay output, DB25, optional)
	PCIe	1 x MXM 3.0 (support 4x GigE)
Power	Type	DC
	Ports	1 x 4pin 5.08 phoenix terminal, with hole lock
	Input	18~36V, power consumption max. up to 240W
LED/Switch	Power on	1 x power on button (Including status LED light)
	Reset	1 x reset/reboot button (Long press>3s when power off, clear CMOS; press 0.2~1s when power on)
Watchdog		Programmable 255 seconds
OS	version	6th Core™: Windows 7/8.1/10 32 bits/64 bits, Linux 7th Core™: Windows 7/8.1/10 64 bits, Linux
RAID	Mode	0, 1

Structure

Treatment	Hard anodizing treatment, scratch resistant

Color	Iron grey, industrial grey color
Cooling	PWM intelligent fan active heat dissipation
Weight	4.18kg
Dimension	268mm(L) x 194.2mm(W) x 67.7mm(H)
Mounting	Desktop, wall mount, VESA mount
Fan	2x 4010 temperature controlled fan

Environmental

Operating temp.	Operating temp.: -20~60°C (industrial SSD); Operating temp.:0~40°C (commercial HDD)
Storage	-40~80°C
Humidity	10%~90%@40°C (non-condensation)
Vibration	SSD：3Grms@5~500Hz，random，1 hr/axis； 2.5″ HDD：1Grms@5~500Hz，random，1 hr/axis
Shock	10G/peak （11ms/sec）

Interface and Dimension

Interface explanation

1:Power 2:LAN 3:USB3.0 4:DVI-D 5:Out 6:COM
7:Reset 8:Switch 9:Earth 10:MXM Slots 11:MIC 12:VGA
13:DP 14:2.5″ HDD 15:USB3.0 16:SIM 17:CPU_FAN
18:GPIO Reserved hole

*TAICENN, is a leading global **solution provider** of Embedded Box IPC, Touch panel IPC and industrial monitor, which are designed specifically for systems and applications that require excellent performance, high-level reliability and stability, long supply period and supports.*