ABOX-E7L

High performance industrial box computer

Intel 6/7th Core i7/i5/i3 Desktop multi-core processors, with PCIe and MXM expansion

Specification

V2.0

Key features:

- Support Intel® 6th /7th Core™ i7/i5/i3 desktop multicore processors;
- Q170 industrial chipset;
- 2x DDR4 SO-DIMM , Max. up to 32GB, Dual channel support;
- 3x Display ports;
- Max. expansion up to 10 USB ports;
- Max. expansion up to 6x Intel RJ45 port;
- Max. expansion up to 6x COM ports;
- Optional power solution (DC 18~36v wide voltage optional)

Product Image

Specification parameter

System

Processor	CPU	Intel® 6th /7th Core™ i3/i5/i7 Desktop LGA1151 CPU, TDP=35W (fan-less)
	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 802.11b/g/n, 3G/4G, optional) 1 x SIM slot
Audio	Chips	Realtek ALC662 5.1 Channel HAD Code
	Port	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 6 pin front panel controlled signal (Power on, restart, status LED, optional)
	Watchdog	1 x Internal USB 2.0 (Optional)
	COM	2 x 9pin COM pin-header (RS232)
	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）
	MXM	1 x MXM 3.0 (support 4x GigE)
Power	Type	DC
	Port	1 x 4pin 5.08 phoenix terminal, with hole lock
	Input	18~36V, Max. power support 240W
LED/Switch	Power on	1 x power on button （including status LED light）
	Reset	1 x reset/restart button (Long press ≥3s when power of, clear CMOS; press 0.2~1s reset when power on)
Watchdog		Programmable 255 seconds
OS	version	6th Core™: Windows 7/8.1/10 32 or 64 bits, Linux 7th Core™: Windows 7/8.1/10 64 bits, Linux
RAID	Mode	0, 1

Structure

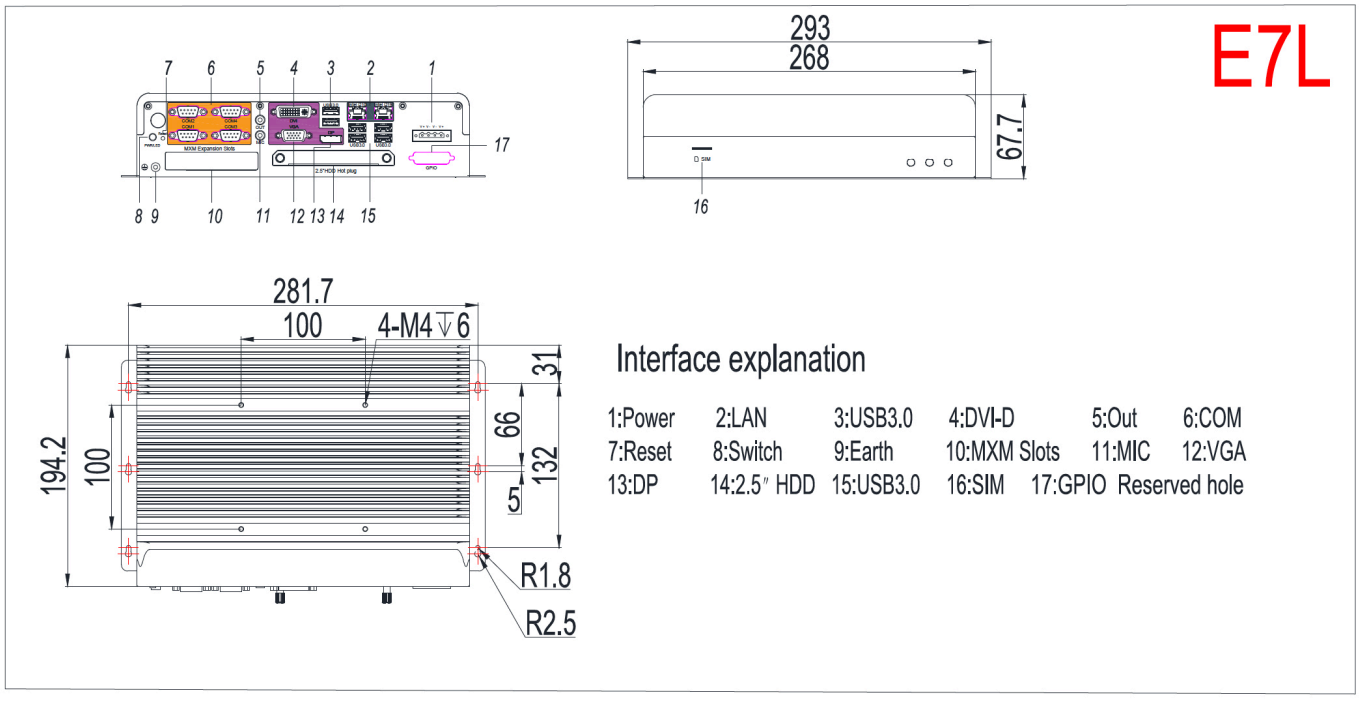
Treatment	Hard anodizing treatment, scratch resistant

Color	Iron grey, industrial grey color
Cooling	Fan-less design
Weight	4.12kg
Dimension	268mm(L) x 194.2mm(W) x 67.7mm(H)
Mounting	Desktop, wall mount, VESA mount (100 x 100mm)
Fan	2x 4010 temperature controlled fan

Environmental

Operation temp.	Operating temp.: -20~60°C (Industrial SSD) Operating temp.: 0~40°C (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



Ordering Information

ABOX-E7L-61	Intel Skylake i3-6100TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
ABOX-E7L-62	Intel Skylake i5-6200TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
ABOX-E7L-63	Intel Skylake i7-6500TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
ABOX-E7L-71	Intel Kabylake i3-7100TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
ABOX-E7L-72	Intel Kabylake i5-7200TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
ABOX-E7L-73	Intel Kabylake i7-7500TE/1*DVI-D/1*DP/1*VGA/2*RJ45/6*USB/4*RS232/DC/Mic In/Line-Out
Memory	DDR4L 4G/8G/16G/32GB
Storage	SSD: 32GB/64GB/128GB/256GB/512GB/1TB HDD: 500GB/1TB
Wireless module	Wifi: 802.11b/g/n Mini PCIe 150M 3G/4G: All network 4G module

***TAICENN**, a member of APUQI joint stock technology company, 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.*