

# 4U Rack-mounted Industrial PC



## Product Features:

- 4U, 19-inch rack-mountable
- Can install standard ATX/Micro-ATX motherboards
- Supports 4 3.5-inch hard drives and 1 2.5-inch SSD
- Supports standard ATX power supplies
- Compatible with 7 PCI/PCIE expansion slots
- Supports 2 5.25-inch large optical drives
- Comes with 1 120mm fan as standard



## IPC-510E

### 4U 19-inch Rack-mounted IPC

Supports motherboards with dimensions of 12" x 9.6" and smaller

IPC-510E is a 4U rack-mountable industrial control computer produced with full molds. The outer surface of the chassis is fully sprayed with sand texture black. It can install standard ATX/Micro-ATX motherboards, support 4 3.5-inch hard drives and 1 2.5-inch SSD, support standard ATX power supplies, be compatible with 7 PCI/PCIE expansion slots, support 2 5.25-inch large optical drives, and be equipped with 1 120mm fan as standard. The rear window is designed with 9 DB9 and 2 DB37 knock-out interfaces, which makes expansion convenient. It is widely used in fields such as industrial control, intelligent transportation, mechanical automation, the Internet of Things, and security monitoring.

Internal structure diagram



## 4U 19-inch Rack-mounted IPC Based on Intel 2/3/4/6/7/8/9/10/11/12/13/14 Gen Processors

Model	IPC-510E KTB 4U Rack-mounted Industrial PC				
	Black/White				
Product Color	Black/White				
Processor	2/3th Gen	4th Gen	6/7/8/9th Gen	10/11th Gen	12/13/14th Gen
Chipset	B75	B85/H81	H110/Q170/Q370/B365/H310C	Q470/B560/H420E/W480	Q670/H610
CPU Socket	LGA1155	LGA1150	LGA1151	LGA1200	LGA1700
Memory	2/4*DDR3 DIMM Up to 16GB/32GB	2/4*DDR3 DIMM Up to 16GB/32GB	2/4*DDR4 DIMM Up to 16GB/32GB/64GB/128GB	2/4*DDR4 (U)DIMM Up to 64GB/128GB	2/4*DDR4/5 (U)DIMM Up to 64GB/128GB
BIOS	64Mb SPI FLASH	64Mb SPI FLASH	64Mb SPI FLASH	64Mb SPI FLASH	64Mb SPI FLASH
Display Interface	VGA+DVI, or VGA	VGA+HDMI, or VGA+HDMI+DVI, or VGA+DVI	VGA+HDMI, or VGA+HDMI+DP(DVI), or VGA+DVI	VGA+HDMI, or VGA+HDMI+DP	VGA+HDMI, or VGA+HDMI+DP/DP++
Serial Port	2/6 RS232/485/422	6/10 RS232/485/422	6/10 RS232/485/422	6/10 RS232/485/422	6 RS232/485/422
Network Port	2*10/100/1000Mbps, 1*Intel 82583V, 1*Intel82579L, Realtek RTL8111E	2*10/100/1000Mbps, Adopt RTL8111H or Intel I211 chip	2*10/100/1000Mbps, Adopt Intel I219V/I211/I210 chip	2*10/100/1000Mbps, Adopt Intel I219V+ Intel I211 chip	2*LAN: 1*1000Mbps+ 1*2.5G network card Adopt Intel I219V+ Intel I226 chip
USB	2/4*USB3.0 (I/O) 2*USB2.0 (I/O) 6/8/10*USB2.0 (Built-in)	2/4*USB3.0 (I/O or built-in) 2/4*USB2.0 (I/O) 2/4/6*USB2.0 (Built-in)	4/6*USB3.0 (I/O or built-in) 5/6/8*USB2.0 (I/O or built-in)	6*USB3.2 (I/O) 4/6/8*USB2.0 (Built-in)	2/6*USB3.2 (I/O) 2/6*USB3.0 (I/O) 6/8*USB2.0 (I/O or built-in)
AUDIO	Realtek ALC662 chip Support MIC-in, Line-out, Line-in(optional)	Realtek ALC892/662 chip; Support Line-in, Line-out, MIC-in	Realtek ALC892/662/897 chip; Support MIC-in, Line-out, Line-in	Realtek ALC662/892 chip Support MIC-in, Line-out, Line-in	Realtek ALC897 chip Support MIC-in, Line-out, Line-in
Hard Disk Interface	1*SATA III  3/5*SATA II	2/4*SATA III  1*mSATA	3/4*SATA III Support RAID 0/1/5/10  1*mSATA or 1xM.2(Support 2260/2280 Key-M SSD, SATA and Nvme)	3/4*SATA III Support RAID 0/1/5/10  1*M.2 (Support 2242/2260/2280/22110 Key-M SSD, SATA or Nvme)	4*SATA III Support RAID 0/1/5/10  1*M.2(Support 2242/2260/2280 Key-M SSD) Support SATA /Nvme PCIe X2
GPIO	Provide a 2*5 Pin 2.0mm GPIO pin, supporting 4 inputs and 4 outputs	Provide a 2*5 Pin 2.0mm/2.54mm GPIO pin, supporting 4 inputs and 4 outputs	Provide a 2*5 Pin 2.0mm/2.54mm GPIO pin, supporting 4 inputs and 4 outputs	Provide a 2*5 Pin 2.54mm GPIO pin, supporting 4 inputs and 4 outputs	Provide a 2*5 Pin 2.54mm GPIO pin, supporting 4 inputs and 4 outputs
System one key restore	/	/	Support one-click restore of hardware system	Support one-click restore of hardware system	/
PCIe	1*16X 1*4X 1*1X	1*16X 1*4X 1*1X	1/2*16X 1/3*4X 1*1X(using 4X socket)	1*16X 1/3/4*4X 2*1X	1*16X 1/3*4X 2*2X
PCI	2/4/6	2/4	2/5	2/4	1/2/4
PS/2	Support	Support	Support	Support	Support
LPT	Support	Support	Support	Support	Support
TPM2.0	/	/	/	Support	Support
Power-supply	Standard ATX 24-pin	Standard ATX 24-pin	Standard ATX 24-pin	Standard ATX 24+8-pin	Standard ATX 24+8-pin
Operating Temp	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C
Storage Temp	-20°C~85°C	-20°C~85°C	-20°C~85°C	-20°C~85°C	-20°C~85°C
Operating Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
OS	Win XP/7/8/10, Linux	Win 7/8/10, Linux	Win 7/8/10, Linux	Win 10/11, Linux	Win 7/8/10/11, Linux, Ubuntu
Watchdog	Watchdog function, supporting system restart within 1255 seconds	Watchdog function, supporting system restart within 1255 seconds	Watchdog function, supporting system restart within 1255 seconds	Watchdog function, supporting system restart within 1255 seconds	Watchdog function, supporting system restart within 1255 seconds
Dimensions	450mm * 427mm * 177mm (D*W*H)				

\*Above config: KTB motherboard & chassis. For more, contact customer service.