

# 4U Rackmount Industrial Controller



## Product Features:

- Supports ATX motherboard or PICMG passive backplane with up to 7 slots.
- Supports 3 x 5.25" and 1 x 3.5" disk drives.
- Front panel with HD display, slide-out keyboard & touchpad for quick operation.
- Unique fixing bar design with rubber feet to prevent card damage from shock/vibration.
- Two USB ports on front panel for easier data transfer.
- Lockable front door to prevent unauthorized access & ease system maintenance.
- Flexible mechanical design, supports 250W/300W/500W & redundant ATX power supplies.



## IPC-4000

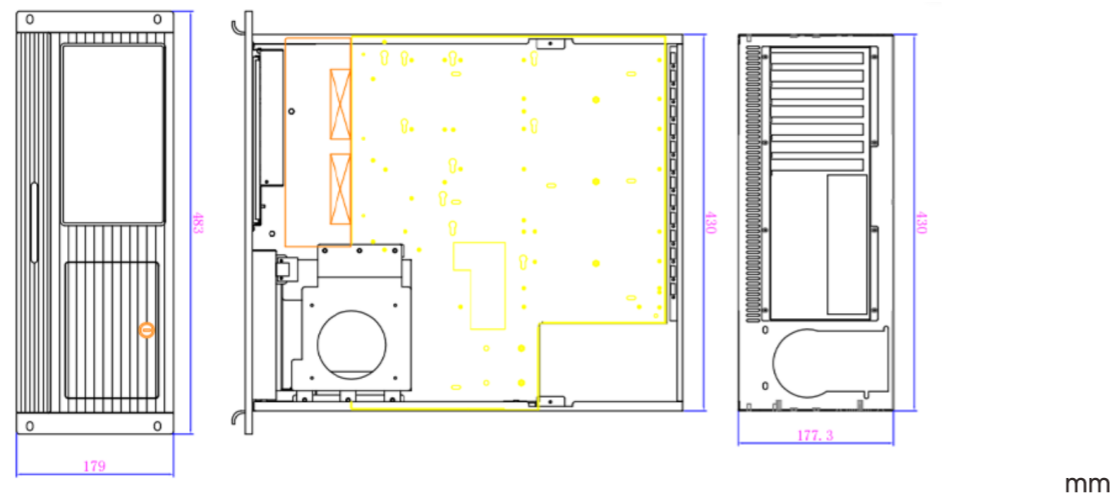
### 4U Rackmount Industrial Controller

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

The black KTB IPC-4000 is a 4U rackmount industrial computer. It supports motherboards of ATX size and smaller, Intel 2nd-14th Gen CPUs, abundant storage interfaces with RAID, dual network ports (up to 2.5G NIC), multiple serial ports and other I/O, plus hardware one-click recovery and TPM2.0.

Made of high-strength steel with shockproof design, it supports wide-temperature operation and watchdog, adapts to various power supplies, has flexible expansion, and fits complex industrial scenarios.

## Dimensions



mm

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

Model	IPC-4000 KTB 4U Rackmount Industrial Controller				
Product Color	Black				
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*Intel 82579L, 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	430mm*500mm*179mm (W*D*H)				

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