

IPC6900-6COM-2LAN-6USB

Fanless industrial PC





SHENZHEN ELSKY TECHNOLOGY CO.,LTD

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Ordering Information:

Option Intel CPU	LAN	COM	USB2.0	USB3.1	SSD	Memory	Power
Support Alder Lake12th gen I3、I5、 I7	2	6	4	2	1*M.2 1*SATA	2*NB-DDR4 MAX 64G	+12V/19V

The following CPU information is for reference only, please consult sales for specific needs!(CPU marked in Blue color is supported by default , if need other model CPU, please contact us in advance)

CPU model	CPU brand	CPU	Core	Frequency	CPU Power consumption (W)	Full load power consumption (W)
12 th gen I3	intel core	1200P	Ten core	4.4G	28	64
		1215U	six core	4.4G	15	55
		1210U	six core	4.4G	9	29
12th gen I5	intel core	1240P	twelve core	4.4G	28	64
		1250P	twelve core	4.4G	28	64
		1235U	Ten core	4.4G	15	55
		1240U	Ten core	4.4G	9	29
		1230U	Ten core	4.4G	9	29
		1245U	Ten core	4.4G	15	55
		12450H	eight core	4.4G	45	95
		12500H	twelve core	4.5G	45	95
12th gen I7	intel core	1280p	fourteen core	4.8G	28	64
		1260p	twelve core	4.7G	28	64
		1270p	twelve core	4.8G	28	64
		1250U	Ten core	4.7G	9	29
		1260U	Ten core	4.7G	9	29
		1265U	Ten core	4.8G	15	55
		1255U	Ten core	4.7G	15	55
		12800H	fourteen core	4.8G	45	115
		12700H	fourteen core	4.7G	45	115

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		12650H	twelve core	4.7G	45	115
		12600H	twelve core	4.5G	45	95
12th gen I9	intel core	12900H	fourteen core	5.0G	45	115

Specification

Industrial PC Model	IPC6900-6COM-2LAN-6USB		
Motherboard Model	QM12U		
Appearance	Color: Black(Silver Optional) Case material :Aluminium Size: 220mm (L) *210mm (W) *80mm (H)		
Cooling	Fanless		
Inside motherboard specifications			
Motherboard Size	170mm (L) *170mm (W) *23mm (H)		
CPU	Support Alder Lake12th genI3-1200P、I3-1215U、I5-1245P、I5-1235U、I5-12500H、I7-1250U、I7-1280P、I7-12800H、I9-12900H etc CPU		
Power supply	1*DC_IN	Support 12V/19V voltage, the inner diameter of DC head is 2.5MM The full load power consumption of the motherboard is about 110W. It is recommended to use DC 12V10A/19V 6.3A or above power supply	
	1*DC_ATX (4Pin)		
Memory	2*SODIMM Memory slot	NB-DDR4 memory , support 2133/2400/2666/2933/3200MHz memory , max support 64G	
Network	1/2*RJ45_LAN port	Single lan support Intel I219V Gigabit LAN chip,dual Lan support Intel I219 V +Realtek 8111H Gigabit network card optional; Supports Wake-on-LAN and PXE diskless boot function	
	1*M.2-WIFI port	Support Key-E port WiFi/Bluetooth module	
	1*4G/5G-M.2 port	Support Key-B port M.2 5G (3052/3042) module or M.2 4G (3042) module	
Display	12th gen	Intel (R) UHD Graphics super core graphics card	Support single display, double display replication, double display extension, three display replication, three display extension, four display replication, four display extension, double display under SHELL;
	1*VGA DB15 port	Support resolution1920*1080@60Hz	
	1*HDMI 2.0 port	Support 4K resolution 4096/3840*2160@60Hz	
	1*HDMI_CON pin	Support 4K resolution 4096/3840*2160@60Hz (16Pin, 2*8Pin, 2.0mm)	
	1*DP port(optional)	Support 8K resolution 7680*4320P@60Hz	
	The VGA, DP interfaces cannot exist at the same time. By default, VGA works, DP doesn't work; Option DP.		

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	IF you need DP , please tell us in advance	
	1*LVDS1/EDP2 pin	LVDS1 or EDP2pin (30Pin, 2*15Pin, 2.0mm)
	1*EDP1 pin	Support 4K resolution 4096/3840*2160@60Hz (30Pin, 2*15Pin, 2.0mm)
	1*LVDS_PWR1pin	LVDS1/EDP2 working voltage control pin (6Pin, 2*3Pin, 2.0mm)
	1*EDP_PWR pin	EDP1 working voltage control pin (6Pin, 2*3Pin, 2.0mm)
	1*INVERT pin	LVDS Backlight control pin (6Pin, 1*6Pin, 2.0mm)
	Default support LVDS1, can choose support EDP2, share pin, EDP2 not support 4K	
USB	2*USB3.2 port	Rear standard USB3.2 port, maximum transmission band 5Gbps
	2*USB2.0 port	ear standard USB2.0 port, maximum transmission band 480Mbps
	1*F_USB1pin	Front USB2.0pin, one group has 2*USB2.0 (9Pin, 2*5Pin, 2.54mm)
	1*F_USB2pin	Front USB2.0pin, one group has 2*USB2.0 (9Pin, 2*5Pin, 2.54mm)
Sound	Integrated Realtek ALC662/660/897 HD digital audio decoder, 6-channel high-fidelity audio controller	
	1*LINE_OUT port	Support audio output (green)
	1*MIC_IN port	Support microphone input (red)
	1*INT_SPK pin	Amplifier supports 8 ohm 5 watt speaker dual-channel output (4Pin, 1*4Pin, 2.0mm)
	1*F_AUDIO pin	standard audio pin (9Pin, 2*5Pin, 2.54mm)
Hard disk	1*M.2-SATA/PCIE port	Support Key-M port M.2 2280/2242hard disk, default support SATA protocol, can change hard disk support NVME protocol
	1*SATA1 port	Standard SATA hard disk port, support SATA 3.0
	1*SATA_PWR pin	Hard disk power supply pin, can take power 5V, 12V. (4Pin, 1*4Pin, 2.54mm)
switch function	1*F_PANEL pin	Switch, power light, hard disk light, restart pin (9Pin, 2*5Pin, 2.54mm)
	1*JATX pin	Hardware control power-on pin (3Pin, 1*3Pin, 2.0mm)
Other I/O	1*COM1pin	Support standard RS232/RS422/RS485 optional (BIOS setting) (9Pin, 2*5Pin, 2.54mm)
	1*COM2pin	Only Support standard RS232 (9Pin, 2*5Pin, 2.54mm)
	1*COM3~6pin	Only Support standard RS232 (39Pin, 2*20Pin, 2.0mm)
	1*JCOM1/2pin	COM1/2 the 9 th feet setting 0V/5V/12V (6Pin, 2*3Pin, 2.0mm)
	1*MSIM1 card slot	Support SIM card, SIM card is required when using 5G/4G
	1*CLR_CMOS pin	Motherboard discharge, reset pin (3Pin, 1*3Pin, 2.0mm)
	1*CPU_FAN pin	CPU fan pin,support temperature control (3Pin, 1*4Pin, 2.0mm)

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	1*SYS_FAN pin	System fan pin	(3Pin, 1*3Pin, 2.54mm)
	1*J_GPIO pin	GPIO control pin	(10Pin, 2*5Pin, 2.0mm)
operating environment	Operating temperature: -10℃~60℃; Working humidity: 5%~95% relative humidity, no condensation		
BIOS	AMI BIOS, Support power-on, timed power-on, remote power-on and power-on device intelligent identification		
Watch Dog	Watchdog programming, support hardware reset function (256 levels, 0~255 seconds)		
operating system	Compatible with Windows 11,Windows 10,Linux,etc. If you want to install Windows 11 OS ,please inform us in advance.		