



Q500 Robot series

7020

Powerful performance Box PC for robot application

Specification

Key features:

- Rugged & Compact design box structure;
- Intel LGA1151 6th/7th/8th/9th Pentium, Core i3/i5/i7 35W desktop processors;
- Single DDR4 memory, up to 16GB, 1* M.2 2242/2280 SSD storage;
- 2* GLAN, optional 4G, WIFI/BT expansion, support dual 4G communication;
- 1 * HDMI and 1* DP++ (Ultra HD 4K) display ports;
- 2* USB2.0, 4* USB3.0, 4*COM, 1*HDMI, 1*DP++;
- PWM intelligent fan;
- Modular design, support various IO expansions;
- DC 12V power input, industrial operating temp. -20 ~ +60 °C.

Product Image



Technical Data

System		
Processor	CPU	Intel® LGA1151 6 th /7 th /8 th /9 th Pentium, Core i3/i5/i7 35W desktop CPU
	Chipset	Q170 (C236)
	BIOS	AMI SPI 64Mb, support ACPI, CPU temperature, system voltage monitoring
Memory	Interface	2* DDR4 SO-DIMM
	Capacity	Max. single RAM up to 32G
Storage	Interface	1* M.2 2242/2280, support NVMe/SATA 3.0 storage
Display	Chipset	CPU integrated Intel® HD Graphics
	Ports	1* HDMI (Max. 3840*2304, @30Hz), 1x DP++ (Max. 4096x2304, @60Hz)
Network	Chip	2* Intel® Ethernet Connection
	Wireless	1* Mini-PCIE (Half/ full, optional 3G/4G, Wi-Fi), 1* M.2-3050 (optional 4G/5G), 2* nano-Sim slot
I/O	USB	4* USB3.0, 2*USB2.0
	COM	8* R232 (2* 2x6 pins terminal, COM 1~6 support RS485)
Expansion	GPIO	1* 20 pin (8-in/8-out)
	Adoor	Optional support Adoor modules expansion
	MXM	Optional support MXM modules expansion
Power	Type	DC
	Port	1* 4 pin Power phenix terminal, P=5.08, lockable
	Input	DC 12V
LED/Switch	Power on	1* Power LED (Blue)
		1* Storage LED (Yellow)
		8* COM LED (Green)
	Button	1* Power button
		1* External switch
Watchdog		Programmable 255 ms
OS	version	Windows 7/8.1/10, Linux
Structure		
Treatment	Hard anodic oxidation treatment + paint spray	
Color	Iron grey	
Cooling	PWM intelligent fan	
Weight	Around 1.5 kg (Net weight)	
Dimension	165mm(L) x 110mm(W) x 84.2mm(H)	
Mounting	Desktop, wall mount, optional Din-Rail (Din 35)	
Environmental		
Operation	Operating temp.: -20~60°C (Industrial SSD)	
Storage	Storage temp.: -40~80°C	
Humidity	10%~90%@40°C (non-condensation)	
Vibration	SSD : 3Grms@5~500Hz , random , 1 hr/axis ;	
Shock	10G/peak (11ms sec)	

