Vehicle Control
AB-MC-IPC-M20-I7

ATOMBOTIX

Modular Design

Easy customization under same housing, fast scale-up & scale down, supports multiple chipset, multiple interfaces, etc.

Super-Efficient Heat Dissipation

With high-precision die-cast aluminum molding and Integrated copper-aluminum, boasts a compact and robust design.
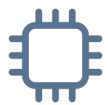
Rich Integrated Interfaces

With Built-in and configurable DI/DO, CAN, RS-485/232, Audio, USB2.0/3.0, don't need external modules, clean wiring & Space friendly.

Single-Sided Interface

Features a streamlined single-sided I/O & flexible mounting options, enabling simpler installation in tight spaces.
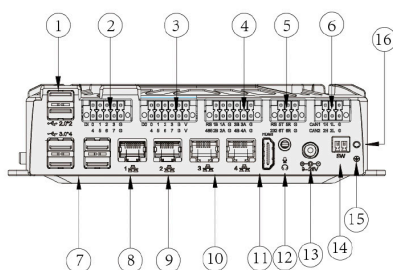
Ultra Powerful Compute

Houses Intel Core I7 processor, 16G DDR4 RAM, 512G SSD, as well as powerful GPU of Intel Iris Xe Graphics for machine vision application.

Cable-Free Design

Ensures maximum stability with its cable-free, direct-connect I/O interface.

Model	AB-MC-IPC-M20-I7
Operating System	Linux Ubuntu (Windows Optional, with separate License)
System Performance	Processor: Intel i7 1195G7
	Memory: DDR4 3200MHz 16GB
	Storage: 512G SSD
Graphic	Intel Iris Xe Graphics, DirectX12.1, OpenGL 4.6, 1 x HDMI,4096*2304@60Hz

Interface	Network： LAN1/2: Intel i211 10/100/1000Mbps LAN1/2/3/4: Intel i210 10/100/1000Mbps Support EtherCAT agreement and internet wake up.(Optional)
	COM: 6 x COM (optional 4 x RS232+2 x RS485; 2 x RS232+4 x RS485)
	USB: 4 x USB3.0, 2 x USB2.0
	Others: 1 x Mic-in, 1 x Line-out, 1 x HDMI
	DI/DO: 8 x DI, 8 x DO
Voltage	+12 – 28V DC(Supports Overvoltage and Reverse polarity Protection)
Power Consumption	Maximum power consumption 65W (i7 1165G7 CPU/8G Memory)
Cooling Method	Fanless, Die-cast aluminum integrated heat dissipation or copper tube heat dissipation (i5 and above)
Installation	Embeded Mounting/DIN Rail Mounting/Wall Mounting
Dimensions	173*52*121mm (length*width*height)
Environment	Electromagnetic Compatibility： IEC60068-2-64
	Working Environment: -20~50℃ (optional SSD), 0 – 40℃ (2.5″ HDD)
	Storage Temperature: -30 – 70℃
	Vibration: with SSD: 3Grms EN60068-2-27:2009 Random vibration 5-500HZ, half an hour per axis
Net Weight	1.2 kg
Backup UPS	Optional (2500mAH Li-ion battery, can work continuously for 30 minutes after power off at 25℃ ambient temperature)
Network Modem	Optional (Wifi/4G LTE/5G)

M20/S20/P20/A20

① USB2.0*2		② 16路DIO输入	
③ 16路DIO输出		④ COM1/2/3/4	
⑤ COM5/6		⑥ CAN1/CAN2	
⑦ USB3.0*4		⑧ LAN1	
⑨ LAN2		⑩ VGA	
⑪ HDMI		⑫ Mic+Line out	
⑬ +9~28V DC IN		⑭ 远程开关/物理开关	
⑮ GND		⑯ UPS扩展槽(可选)	