

M80

High-performance Embedded System

M80 is a high-performance embedded platform, with the Intel W480E chipset used for the motherboard, supporting 10/11th generation Xeon Core processors; it has a simple structure with small overall dimensions and excellent performance in heat dissipation and anti-vibration; the complete PC has abundant IO ports and supports WIFI and 4G functions at the same time; IO ports can be expanded through high-speed connectors, and users can customize the port (PCI extension and PCIE extension are supported) to meet different application requirements; the products are mainly used in machine vision, highway lane controllers, AI and edge computing, vehicle-infrastructure cooperation and driving assistance, intelligent manufacturing of non-standard equipment and other application fields.



Product Features



Fully sealed and fanless



Excellent performance in heat dissipation and vibration resistance



Operating in a wide temperature range

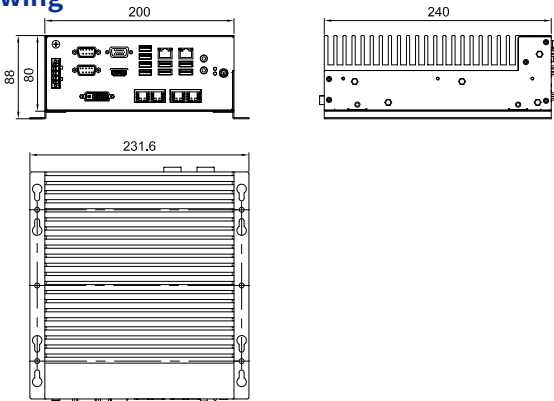


High Performance



4G and WIFI modules expandable

Product Dimensions Drawing



(Please refer to the user manual to check detailed specifications and dimensions) (unit: MM)

Product Specifications

Item		Description
System Configuration	Processor	Intel® Xeon W & 10th /11th Core™ i9/i7/i5/i3, LGA1200 series processors with power consumption not exceeding 65W
	Chipset	Intel® W480E
	Memory	2x 260-Pin DDR4 SO-DIMM slots, maximum 32G for a single slot, and maximum 64G for complete PC
I/O Port	External Ports on the PC	2x RJ45 10/100/1000Mbps LAN port, expandable to 6 LAN ports
		4 x USB3.2 (Gen 2) + 4 x USB3.2 (Gen 1) port
		2 x serial port (RS232/485/422 optional)
	Internal Ports on the Motherboard	1 group of Audio ports (supporting MIC-IN and LINE-OUT)
		1 x VGA, 1 x HDMI display and 1x built-in DVI port
		1x 8-channel GPIO
Expansion Bus	Motherboard Integration	4x built-in 2x5Pin Wafer Pins (RS232 expandable)
		1x built-in USB2.0 (1x5PIN wafer pin. The built-in softdog can be extended by USB cable)
		4x SATA 3.0 (6Gbps), supporting Raid 0/1/5/10
Storage	Hard Disk	1 x TPM port, supporting TPM2.0
		1 x M-SATA slot (for 4G or storage function. The 4G function and storage expansion cannot be used simultaneously)
		1 x internal SIM card slot
		1 x M.2 Key E (WIFI expandable)
Remote Maintenance	Power Supply	1x 2 × 30Pin high-speed connector, custom expansion port, and external expanded module
		The M80 host supports 1x 2.5-inch hard disk bay
		The expansion box supports the optional hard disk expansion bracket, and the bracket occupies the expansion slot
Environmental Requirements	Working Temperature	1-slot expansion box, with the optional expansion bracket to expand 1x 2.5-inch hard disk bay
		2-slot expansion box, with the optional expansion brackets to expand 2x 2.5-inch hard disk bays
		3-slot expansion box, with the optional expansion brackets to expand 2x 2.5-inch hard disk bays
Switch Indicator	Storage Temperature	Supports 1x M-SATA slot
		Supports AMT function
		1x 4Pin Phoenix terminal type power connector
Installation Method	Product Dimensions	External AC 220V power adapter or DC 9-36V wide voltage input (optional)
		Power supply and hard disk indicator
		0°C~+45°C (HDD/normal-temperature SSD)
Operating System	Environmental Requirements	-20°C~+60°C (wide temperature SSD/electronic hard disk, CPU TDP≤35W)
		-20°C~+50°C (wide temperature SSD/electronic hard disk, 35W<CPU TDP≤65W)
		Note: 1. Ordinary HDD is not recommended for the fanless PC, and the air flow rate of the working environment must be greater than 0.7m/s
Product Dimensions	Storage Temperature	Note: 2. The configuration with a fan can be used in conjunction with HDD
		-40°C~+85°C; humidity: 5%~95% (non-condensing state)
		Wall-mounted, desktop
Operating System	Installation Method	80mm (W) × 240mm (D) × 200mm (H)
		M80-1P: 108mm (W) × 240mm (D) × 200mm (H)
		M80-2P: 129mm (W) × 240mm (D) × 200mm (H)
Optional Accessories	Product Dimensions	M80-3P: 154mm (W) × 240mm (D) × 200mm (H)
		Supports LINUX systems with high kernel versions such as WIN10 (64 bit), Server 2019, Ubuntu X64 and CentOS

Ordering Information

Part No.	Description	Specification
0010-169421	M80-01	Fanless computing unit/ Intel® W480E chipset/ I5-10500 3.1Ghz hexa-core processor/ 8G memory/ 128G SSD/ serial port*2/ USB3.2(Gen 2)*4+ USB3.2(Gen 1)*4/ Gigabit LAN port*2/ VGA *1/ HDMI *1 / Line-out*1/ MIC*1/ 9-36V DC power supply/ 19V adapter*1
0020-066141	M80-01	Fanless barebone system/Intel® W480E chipset/no CPU/no memory/no hard disk/serial port*2/USB3.2(Gen 2)*4+USB3.2(Gen 1)*4/Gigabit LAN port*2/VGA *1/HDMI *1 /Line-out*1/MIC*1/9-36V DC power supply/no adapter
0010-171991	M80-1P-01	Expandable computing unit/ Intel® W480E chipset/ I3-10100 3.6Ghz quad-core processor/ 8G memory/ 128G SSD/ serial port*4/USB3.2(Gen 2)*4+USB3.2(Gen 1)*4/ Gigabit LAN port*2/ VGA *1/ HDMI *1 / Line-out*1/ MIC*1/ PCIEx16*1/ 9-36V DC power supply/ 19V adapter*1
0010-172001	M80-2P-01	Expandable computing unit/ Intel® W480E chipset/ I5-10500 3.1Ghz hexa-core processor/ 8G memory/ 128G SSD/ serial port*4/ USB3.2(Gen 2)*4+ USB3.2(Gen 1)*4/ Gigabit LAN port*4/ VGA *1/ HDMI *1 / Line-out*1/ MIC*1/ PCIEx16*1/ PCI*1/ 9-36V DC power supply/ 19V adapter*1
0010-172011	M80-2P-02	Expandable computing unit/ Intel® W480E chipset/ I5-11500 2.7Ghz hexa-core processor/ 8G memory/ 128G SSD/ serial port*4/ USB3.2(Gen 2)*4+USB3.2(Gen 1)*4/ Gigabit LAN port*2/ VGA *1/ HDMI *1 / Line-out*1/ MIC*1/ PCIEx4*1/ PCIEx4*1/ 9-36V DC power supply/ 19V adapter*1
0010-172021	M80-3P-01	Expandable computing unit/ Intel® W480E chipset/ I7-11700 2.5Ghz eight-core processor/ 8G memory/ 128G SSD/ serial port*4/ USB3.2(Gen 2)*4+ USB3.2(Gen 1)*4/ Gigabit LAN port*6/ VGA *1/ HDMI *1 / Line-out*1/ MIC*1/ PCIEx16*1/ PCI*2/ 9-36V DC power supply/ 19V adapter*1

Optional Accessories

Part No.	Model	Specification
1060-010851	EF-4LAN-004	Customized high-speed connector expansion card, 4 x Gigabit LAN port, intel 1225LM chip
1060-010861	EF-4LAN-004-2LAN	Customized high-speed connector expansion card, 2x Gigabit LAN port, Intel 1225LM chip
1060-010131	EF-HDD-025ECS	Customized high-speed connector expansion card, 1 x M.2KEYM port, supporting PCIeSSD
1467-028581	Hard Disk Bracket	2.5-inch single hard disk bracket, occupying 1 expansion slot
1467-028591		2.5-inch double hard disk bracket, occupying 2 expansion slots

Note: EVOC Intelligent reserves the right to final interpretation of product specifications and ordering information etc.