Leading Provider of Industrial Internet Solutions in China

Intelligent manufacturing

EC0-1821

ATX Structure Motherboard

EC0-1821 motherboard adopts standard ATX specifications and Intel® C246 platform, and supports Intel 8/9th Gen processors. It supports PCI+PCIE expansion combination, multiple COM ports, multiple USB ports,and SATA RAID 0, 1, 5, 10. The product can be widely used in industrial automation, IOT, self-service terminals,petrochemical industry, safety monitoring, intelligent transportation, environmental protection, communication and other fields.
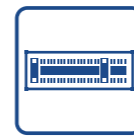
Product Specifications

Item	Description
Processor	Supports Intel LGA 1151 pin: 8/9th Gen processors, Xeon E-21xx/E-22xx series processors
Chipset	C246
Memory	4 x DDR4 DIMM memory slot, a single memory supporting 32GB, the four supporting up to 128GB
Display Ports	Any three display ports among VGA, HDMI, DVI-D and DP
Audio Ports	Supports MIC-IN/LINE-IN/LINE-OUT
LAN	2 x Gigabit LAN port, LAN1 supporting Wake-on-LAN
Storage	4 x SATA3.0, supporting RAID 0, 1, 5, 10
IO Ports	6 x COM port, COM1, COM2 support RS-232/RS-422/RS-485 mode selection 6 x USB 2.0 port, 4 x USB3.1 GEN2 port (10Gb/s), 2 x USB3.1 GEN1 port (5Gb/s) 1 x PS/2 port 1 x 8-channel digital I/O port 1 x TPM port
Bus Expansion	2 x PCI, 3 x PCIEx4 2 x PCIEx16 (when PCIE5 slot is occupied, the two PCIE slots adopts PCIEx8 speed by default) 1 x M.2 KEY M port (PCIe X4, supporting sizes 2242/2260/2280/22110) 1 x M.2 KEY E port (PCIe X1, supporting size 2230)
Power Supply	ATX power supply
Working Environment	-10℃～60℃
Storage Environment	-20℃～80℃
Constant Damp Heat	40℃ 95%RH, non-condensing
Dimmensions	305mm (L)×244mm (W)
Operating System	WIN10, Linux

Product Features

supports Intel® 8/9th Gen processors

Supports 4 x memory slot

12 x USB port

2 x PCI+ 5 x PCIE expansion

Ordering Information

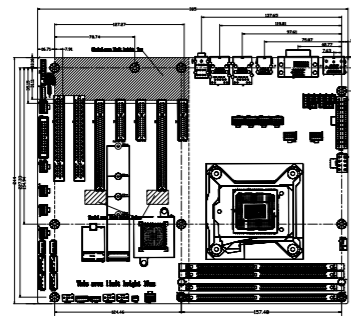| Part No.	Model	Description
0030-023201	EC0-1821	ATX structure motherboard/C246 chipset/supports Intel® 8/9th Gen processors/provides 4 x DDR4 DIMM, expandable up to 128 GB/any three display ports among DP, HDMI, VGA, DVI-D/4 x SATA3.0, supporting RAID 0, 1, 5, 10/2 x Gigabit LAN port/12 x USB/6 x COM port/1 group of audio ports/1 x 8-channel GPIO/1 x TPM port/1 x PS2 pin on motherboard/expansion ports: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16/1 x M.2 KEY M port (PCIe X4, supporting sizes 2242/2260/2280/22110), 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8
0030-023211	EC0-1821-I210	ATX structure motherboard/C246 chipset/supports Intel 8/9th Gen processors/provides 4 x DDR4 DIMM, expandable up to 128 GB/any three display ports among DP, HDMI, VGA, DVI-D/4 x SATA3.0, supporting RAID 0, 1, 5, 10/2 x Gigabit LAN port/12 x USB/6 x COM port/1 group of audio ports/1 x 8-channel GPIO/1 x TPM port/1 x PS2 pin on motherboard/expansion port: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16/1 x M.2 KEY M port (PCIe X4, supporting sizes 2242/2260/2280/22110), 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8
0020-064981	IPC-810/EC0-1821/300W	C246 platform motherboard/300W power supply/2 x COM/2 x Gigabit LAN port/8 x USB (2 at front, 6 at rear) /any three display ports among VGA, DVI-D, DP, HDMI/1 group of audio ports/expansion: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16/1 x M.2 KEY M port(PCIe X4, supporting sizes 2242/2260/2280/22110); 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8
0020-065481	IPC-810/EC0-1821-NS/300W	C246 platform motherboard/300W power supply/2 x COM/2 x Gigabit LAN port/8 x USB (2 at front, 6 at rear) /any three display ports among VGA, DVI-D, DP, HDMI/no sound card/ expansion: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16/1 x M.2 KEY M port(PCIe X4, supporting sizes 2242/2260/2280/22110); 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8
0020-064991	IPC-860/EC0-1821/600W	C246 platform motherboard/600W power supply/2 x COM/2 x Gigabit LAN port/8 x USB (2 at front, 6 at rear) /any three display ports among VGA, DVI-D, DP, HDMI/1 group of audio ports/expansion: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16/1 x M.2 KEY M port (PCIe X4, supporting sizes 2242/2260/2280/22110); 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8
0010-151371	IPC-810E/EC0-1821/I7-8700/8G/1T/300W	C246 platform motherboard/i7-8700/8G memory/1T HDD/300W power supply/6 x COM/2 x Gigabit LAN port/8 x USB (2 at front, 6 at rear) /any three display ports among VGA, DVI-D, DP, HDMI, 1 group of audio ports; expansion: 2 x PCI, 3 x PCIe x4, 2 x PCIe x16; 1 x M.2 KEY M port (PCIe X4, supporting sizes 2242/2260/2280/22110); 1 x M.2 KEY E port (PCIe X1, supporting size 2230) Note: When the two PCIE x16 slots are occupied at same time, the speed will be reduced to the speed of PCIE x8

Product Dimensions Drawing

Please refer to the user manual to check detailed specifications and dimension. (Unit: MM)

Note: The final interpretation rights for product specifications, ordering information, etc. belong to EVOC Intelligent Technology Co., Ltd.