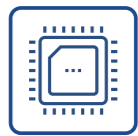PARHELIA

Intelligent manufacturing
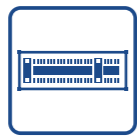
EC0-1825

ATX Structure motherboard

EC0-1825 motherboard adopts standard ATX specifications and Intel® H610E chipset, supports Intel's 12th Gen processors, PCI+PCIE expansion combination,multiple COM ports, and multiple USB ports. It can be widely used in industrial automation, machine vision, deep learning, safety monitoring, intelligent transportation,environmental protection, communication and other fields.
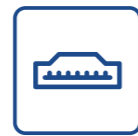

● Product Features
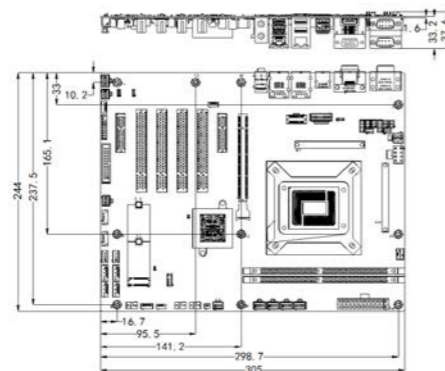

| Supports 12th Gen processors | Supports PCIE5.0 | Supports HDMI2.0b high definition display | Provides 1 x 2500Mbps LAN port |

● Product Dimensions Drawing

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

● Product Specifications

Item	Description
Processor	Supports Intel® LGA1700 pin 12th Gen processors, power consumption up to 125W
Chipset	H610E
Memory	2 x DDR4 DIMM memory slot, a single memory module supporting 32GB, the two supporting up to 64GB
Display Ports	VGA, DVI-D, HDMI2.0b triple display
Audio Ports	Supports MIC-IN/LINE-OUT
LAN	1 x 10/100/1000Mbps LAN port 1 x 10/100/1000/2500Mbps LAN port LAN1 supports Wake-on-LAN
Storage	4 x SATA3.0
IO Ports	6 x COM port, COM1, COM2 support RS-232/RS-422/RS-485 mode selection 6 x USB2.0, 4 x USB3.0 1 x PS/2 port 1 x 8-channel digital I/O port 1 x TPM port
Bus Expansion	4 x PCI 1 x PCIEx16 (supporting up to PCIE5.0) 1 x PCIEx4 (bit number PCIE1, PCIE3.0 x2 signal) 1 x PCIEx4 (bit number PCIE2, PCIE3.0 x2 signal or PCIE3.0 x4 signal) 1 x M.2 KEY M port (PCIE3.0 x2 signal, size 2242/2280) Note: As compatible cable design is adopted for M.2 and PCIE2 slot, when M.2 device is not inserted, PCIE2 slot provides PCIE3.0 x4 signal
Power Supply	ATX power supply
Working Environment	-10℃～60℃
Storage Environment	-40℃～85℃
Constant Damp Heat	40℃ 95%RH, non-condensing
Dimmensions	305mm(L)×244mm(W)
Operating System	Windows 10 (Windows 10(21H1) and later versions are required), WIN11, high kernel version LINUX systems (kernel versions 5.15 and above are required)

● Ordering Information

Part No.	Model	Description
0030-024141	EC0-1825-01	ATX structure single board/H610E chipset/supports 12th Gen processors/provides 2 x DDR4 DIMM memory slot, supporting expansion up to 64GB/VGA+HDMI+DVI-D triple display/4 x SATA3.0/1 x M.2/2 x Gigabit LAN port/6 x USB2.0, 4 x USB3.0/6 x COM/MIC-IN/LINE-OUT/1 x 8-channel GPIO/1 x TPM/1 x LPT/4 x PCI, 1 x PCIE4.0 x16, 2 x PCIE3.0 x4 slot (pay attention to PCIE x4 speed signal matching)
0030-024121	EC0-1825-02	ATX structure single board/H610E chipset/supports 12th Gen processors/provides 2 x DDR4 DIMM memory slot, supporting expansion up to 64GB/VGA+HDMI+DVI-D triple display/4 x SATA3.0/1 x M.2/2 x Gigabit LAN port/6 x USB2.0, 4 x USB3.0/6 x COM/MIC-IN/LINE-OUT/1 x 8-channel GPIO/1 x TPM/1 x LPT/4 x PCI, 1 x PCIE5.0 x16, 2 x PCIE3.0 x4 (pay attention to PCIE x4 speed signal matching)
0020-066901	IPC-810/EC0-1825/300W	4U, 19"standard rack mount IPC-810 barebone system/EC0-1825-01/ATX300W power supply/no optical drive/no keyboard and mouse/with heat sink, external ports: 2 x Gigabit LAN port/2 x COM port/8 x USB/VGA+HDMI+DVI-D triple display/MIC-IN/LINE-OUT/4 x PCI, 1 x PCIE4.0 x16, 2 x PCIE3.0 x4 (pay attention to PCIE x4 speed signal matching)
0010-176481	IPC-810E/EC0-1825/i5-12500/8G/1T/300W	4U, 19"standard rack mount IPC-810E complete PC/EC0-1825-01/i5-12500/8G memory/1T HDD/ATX 300W power supply/no optical drive/no keyboard and mouse, external ports: 2 x Gigabit LAN port/6 x COM port/8 x USB/VGA+HDMI+DVI-D triple display/MIC-IN/LINE-OUT/4 x PCI, 1 x PCIE4.0 x16, 2 x PCIE3.0 x4 (pay attention to PCIE x4 speed signal matching)
0010-176491	IPC-820/EC0-1825/i7-12700/8G/1T/300W	4U, 19"standard rack mount IPC-820 complete PC/EC0-1825-01/i7-12700/8G memory/1T HDD/ATX 300W power supply/no optical drive/no keyboard and mouse, external ports: 2 x Gigabit LAN port/6 x COM port/8 x USB/VGA+HDMI+DVI-D triple display/MIC-IN/LINE-OUT/4 x PCI, 1 x PCIE4.0 x16, 2 x PCIE3.0 x4 (pay attention to PCIE x4 speed signal matching)

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