

EC3-1822

3.5" Single Board Computer

EC3-1822 is based on the Intel® Elkhart lake Soc processor, meeting the 3.5" single board specification. It has an ultra-low power consumption embedded motherboard and complete IO port functions, supporting a wide range of temperature and voltage. The compact size design is suitable for space scenarios with compact installation and is very suitable for medical examination, machine vision, industrial control, intelligent robots and other industries.



Product Features



Onboard low power consumption processor

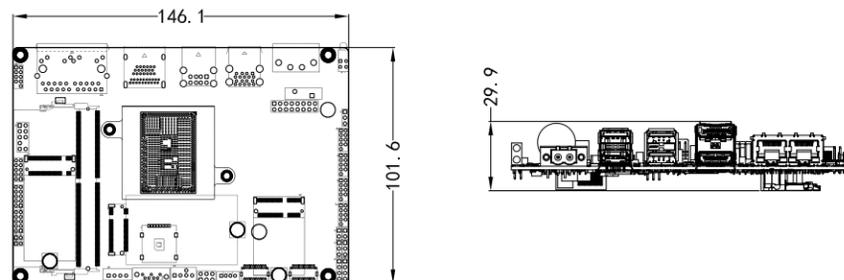


Multiple IO ports



Supports HDMII.0, DP1.4 and LVDS display ports

Product Dimensions Drawing



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

Product Specifications

Item	Description
Processor	Intel Elkhart Lake onboard CPU, Celeron J6412/N6211/Atom x6425E
Memory	1 x 260pin DDR4 SO-DIMM, supporting 3200MHz and 32GB at most
Display Port	HDMI2.0, DP1.4, LVDS
Audio	Adopt HDA standard, supporting MIC-IN/LINE-IN/LINE-OUT
LAN	2 x 10/100/1000Mbps LAN port
Memory	1 x SATA3.0, 1 x M.2 2242 Key-M (SATA3.0)
I/O Port	Onboard front-mounted: 2 x USB3.1 Gen2 (10Gbps, Type A), 2 x USB2.0 (Type A), and 2 x built-in USB2.0 in the motherboard 2 x RS232/422/485, 2 x RS232 1 x TPM port, supporting TPM 2.0 security encryption 1 x hard disk indicator, 1 x power indicator 1 x 16-channel GPIO
Bus Expansion	1 x M.2 E-key 2230 (USB2.0 signal and PCIeX1 signal), Wifi available 1 x M.2 B-key 3052 (USB3.0 signal), with SIM card slot, supporting 4G/5G
Power Supply	Adopt standard DC 12V power supply Optional DC9-36V wide voltage power supply module
Working Environment	Working temperature: -10°C~+60°C
Storage Environment	Storage temperature: -40°C~+85°C
Constant Damp Heat	40°C 95%RH, non-condensing
Overall Dimensions	146.1mm (L) x 101.6mm (W)
Operating Systems	Windows 10/Windows 11 64 bit, Ubuntu, Linux high kernel version, etc.

Ordering Information

Part No.	Model	Description
0030-024491	EC3-1822-N6211	3.5" single board computer/onboard N6211 dual-core processor/1 x 260pin DDR4 SO-DIMM slot/ DP+HDMI+LVDS/1 x 16BIT GPIO/2 x USB3.1 Gen2/4 x USB2.0/1 group of audio ports/2 x GbE/1 x SATA3.0/1 x M.2 Key-M/2 x RS-232, 2 RS-232/422/485/1 x M.2 Key-E (Wifi available)/1 x M.2 Key-B (support 4G/5G)/DC12V/without CPU radiator assembly
0030-024481	EC3-1822-J6412-01	3.5" single board computer/onboard J6412 quad-core processor/1 x 260pin DDR4 SO-DIMM slot/ DP+HDMI+LVDS/1 x 16BIT GPIO/2 x USB3.1 Gen2/4 x USB2.0/1 group of audio ports/2 x GbE/1 x SATA3.0/1 x M.2 Key-M/2 x RS-232, 2 RS-232/422/485/1 M.2 Key-E (Wifi available)/1 x M.2 Key-B (support 4G/5G)/DC12V/without CPU radiator assembly
0030-024701	EC3-1822-J6412-02	3.5" single board computer/onboard J6412 quad-core processor/1 x 260pin DDR4 SO-DIMM slot/ DP+HDMI+LVDS/1 x 16BIT GPIO/2 x USB3.1 Gen2/4 x USB2.0/1 group of audio ports/2 x GbE/1 x SATA3.0/1 x M.2 Key-M/2 x RS-232, 2 x RS-232/422/485/1 x M.2 Key-E (Wifi available)/1 x M.2 Key-B (support 4G/5G)/DC 9-36V wide voltage//without CPU radiator assembly
0030-024501	EC3-1822-X6425E	3.5" single board computer/onboard X6425E quad-core processor/1 x 260pin DDR4 SO-DIMM slot/ DP+HDMI+LVDS/1 x 16BIT GPIO/2 x USB3.1 Gen2/4 x USB2.0/1 group of audio ports/2 x GbE/1 x SATA3.0/1 x M.2 Key-M/2 x RS-232, 2 x RS-232/422/485/1 x M.2 Key-E (Wifi available)/1 x M.2 Key-B (support 4G/5G)/DC 9-36V wide voltage//without CPU radiator assembly

Accessory Information

Part No.	Description
1500-016451	EC3-1822-J6412/N6211, CPU radiator module assembly
1500-016461	EC3-1822-X6425E, CPU radiator module assembly

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