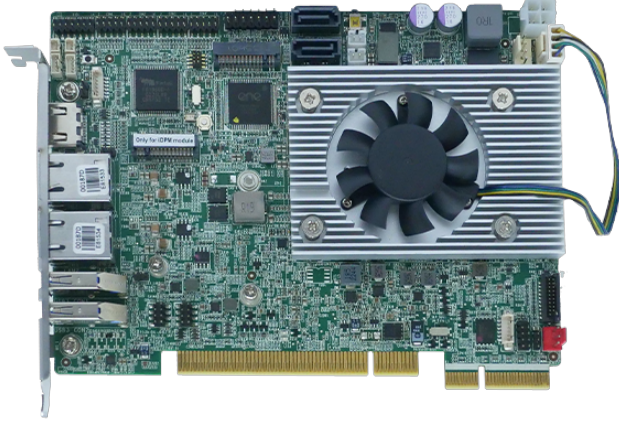


# PICOe-EHL

Half-size PCIe CPU Card supports Intel® Elkhart Lake Processor Intel® Celeron® J6412 on-board SoC, with 8GB LPDDR4x memory on board default, DDR4, HDMI™, iDPM display module, Dual Lan, USB 3.2, SATA 6Gb/s, M.2, HD Audio and RoHS



## Features

- » Intel® Elkhart Lake Celeron® J6412 on-board SoC
- » Support dual Intel® I210 GbE Ethernet controller
- » Support dual independent displays via HDMI™ and iDPM
- » Support one PCIe Gen3 x4, four PCI and one M.2 M Key expansions
- » Support two USB 3.2 Gen2, four USB 2.0, two RS-232, two RS-232/422/485

## Specifications

Form Factor	
Form Factor	Half Size SBC
System	
CPU	Intel® Elkhart Lake Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W)
Memory	LPDDR4x-3200Gbps 8GB, up to 16GB
Memory Max.	16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	185 mm x 126 mm
Net Weight	420g
Storage	
Storage	2 x SATA 6Gb/s
I/O Interface	
Display Output	1 x HDMI™ : up to 4096 x 2160 @30Hz 1 x iDPM : support iEi eDP/ LVDS/ VGA module
Ethernet	2 x LAN - LAN1: Intel® I210 controller LAN2: Intel® I210 controller
Audio	1 x HD Audio : iAUDIO (2 x 5 pin, support IEI AC-KIT-888HD Module)
I/O Interface	2 x External USB 3.2 Gen2x1 : 10Gb/s(Type A) 2 x Internal RS-232 : 2x5 pin, P=2.0 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0 4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	1 x M.2(NGFF) : M Key (2242/2280) PCIe Gen3 x2 4 x PCI Slot : to the backplane 1 x PCIe x4 : to the backplane (1 x PCIe x4 or 4 x PCIe x1)
Power	
Power Consumption	5V@6.39A, 5VSB@0.22A, 12V@0.96A (Intel® Celeron® J6412 CPU with 8 GB 3200 MHz LPDDR4x memory, max. loading, EuP mode enabled)
Power Supply	1 x Internal 12V power connector (2x2 pin) Support AT/ATX mode ErP/EuP Compliant

Environment	
Operating Temperature	0°C~60°C
Storage Temperature	-20°C~70°C
Humidity	5% ~95%, non-condensing

## Ordering Information

PICOe-EHL-J6412C-R10	Half-size PCIe CPU Card supports Intel® Elkhart Lake Processor Intel® Celeron® J6412 on-board SoC, with 8GB LPDDR4x memory on board default, DDR4, HDMI™, iDPM display module, Dual Lan, USB 3.2, SATA 6Gb/s, M.2, HD Audio and RoHS
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## Packing List

1 x PICOe-EHL single board computer	1 x SATA cable
1 x QIG	