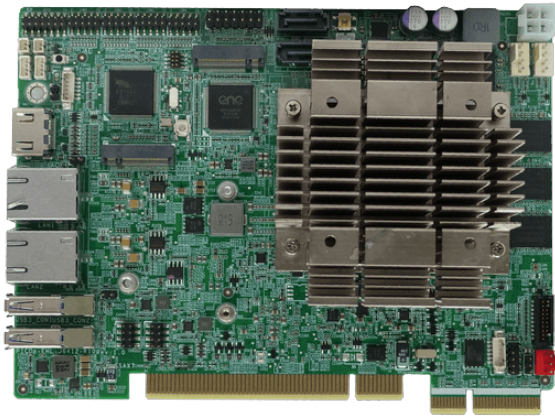


PICOe-EHL

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

| | |
|----------------------|--|
| PIC0e-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 |
|----------------------|--|

Packing List

| | |
|-------------------------------------|----------------|
| 1 x PIC0e-EHL single board computer | 1 x SATA cable |
| 1 x QIG | |