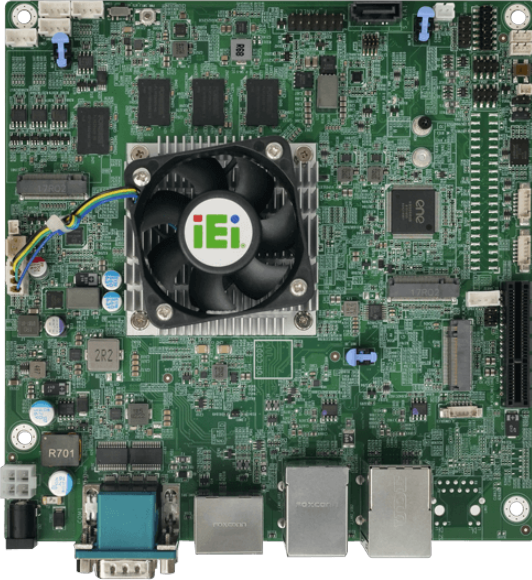


# KINO-EHL-J6412

Mini-ITX SBC supports Intel® Elkhart Lake Celeron® on-board SoC with 8GB LPDDR4x memory on board default, Triple Independent Display with HDMI, DP and iDPM, SATA 6Gb/s, Dual 2.5GbE, USB 3.2, M.2, 12V DC input and RoHS



## Features

1. Mini-ITX SBC supports Intel® Elkhart Lake Celeron® J6412
2. Support Triple independent displays via HDMI, DP, iDPM
3. Support dual Intel® i225V 2.5GbE ports
4. Support one PCIe Gen3 x4 slot, M.2 A key and M.2 B key expansions
5. Two USB 3.2 Gen2, six USB 2.0, two RS-232, four RS-422/485

## Specifications

| System                      |  |
|-----------------------------|--|
| CPU                         | Intel® Elkhart Lake Processor<br>Intel® Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W)   |
| Memory                      | Onboard LPDDR4x-3200MHz 8GB, system up to 16GB   |
| Memory Max.                 | up to 16GB   |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin)<br>1 x System fan connector (1x3 pin)  |
| Storage                     |  |
| Storage                     | 1 x SATA : 6Gb/s with 5V SATA power connector  |
| I/O Interface               |  |
| Display Output              | 1 x HDMI : up to 4096 x 2160@30Hz<br>1 x Display Port : up to 4096 x 2160@60Hz<br>1 x iDPM : 1 x IEI iDPM 3040 slot (only for IEI eDP/LVDS/VGA module)   |
| Ethernet                    | 2 x LAN -<br>LAN1: Intel® I225V 2.5GbE controller<br>LAN2: Intel® I225V 2.5GbE controller  |
| Audio                       | 1 x HD Audio : 1 x iAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)  |
| I/O Interface               | 2 x External RS-232<br>4 x Internal RS-422/485 : 1x4 pin, P=2.00<br>2 x External USB 2.0<br>4 x Internal USB 2.0 : 2x4 pin, P=2.00<br>1 x DIO : 12-bit digital I/O (2x7 pin)<br>2 x External USB 3.2 Gen2x1 : 10Gb/s |
| Expansion                   | 1 x PCIe x4 : PCIe Gen3 x1 signal<br>2 x M.2(NGFF) -<br>1 x M.2 A key (2230) (PCIex1 & USB 2.0)<br>1 x M.2 B key (3052/3042/2242/2280) w/ SIM holder (PCIe x2 / USB 2.0)   |

| Other Features        |   |
|-----------------------|---|
| TPM                   | Intel® PTT (TPM 2.0)  |
| Power                 |   |
| Power Consumption     | 12V@2.78A (Intel® Celeron® J6412 2.0GHz with 8GB 3200MHz LPDDR4 memory and EUP enabled) |
| Power Supply          | 12V DC input  |
|                       | 1 x Internal power connector (2x2 pin)  |
|                       | 1 x External DC power Jackc (Ø2.5mm)  |
|                       | ErP/EuP Compliant   |
| Environment           |   |
| Operating Temperature | 0°C ~ 60°C  |
| Storage Temperature   | -30°C ~ 70°C  |
| Humidity              | 5% ~ 95%, non-condensing  |
| Certifications        |   |
| Safety & EMC          | CE/FCC compliant  |

## Ordering Information

|                    |   |
|--------------------|---|
| KINO-EHL-J6412-R10 | Mini-ITX SBC supports Intel® quad-core Celeron® J6412 2.0GHz on-board SoC with 8GB LPDDR4x memory on board default, Triple Independent Display, HDMI, DP, SATA 6Gb/s, Triple GbE, USB 3.2, M.2 and RoHS |
|--------------------|---|

## Packing List

|                                    |                |
|------------------------------------|----------------|
| 1 x KINO-EHL single board computer | 1 x SATA cable |
| 1 x I/O shielding                  | 1 x QIG        |