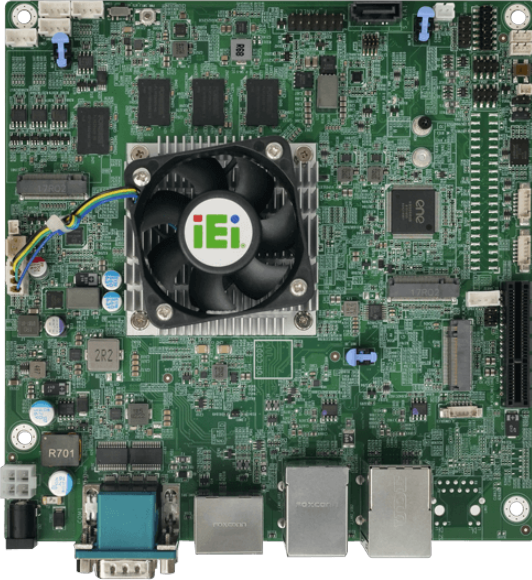


KINO-EHL

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/I226V 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 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) 1 x System fan connector (1x3 pin) |
| Storage | |
| Storage | 1 x SATA : 6Gb/s with 5V SATA power connector 1 x M.2(NGFF) : B key 3042/3052/2242/2280 (PCIe x2 & USB 2.0) |
| I/O Interface | |
| Display Output | 1 x HDMI™ : up to 4096 x 2160@30Hz 1 x Display Port : up to 4096 x 2160@60Hz 1 x iDPM : 1 x IEI iDPM 3040 slot (only for IEI eDP/LVDS/VGA module) |
| Ethernet | 2 x LAN - LAN1: Intel® I225V 2.5GbE controller 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 4 x Internal RS-422/485 : 1x4 pin, P=2.00 2 x External USB 2.0 4 x Internal USB 2.0 : 2x4 pin, P=2.00 1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External USB 3.2 Gen2x1 : 10Gb/s |
| Expansion | 1 x PCIe x4 : PCIe Gen3 x1 signal 2 x M.2(NGFF) - 1 x M.2 B key 3042/3052/2242/2280 (PCIe x2 & USB 2.0) 1 x On-board SIM card socket (hinge type) for M.2 B key |

| 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 | -10°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~ 95%, non-condensing |
| Certifications | |
| Safety & EMC | CE/FCC compliant |

Ordering Information

| | |
|---------------------|---|
| KINO-EHL-J6412C-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 |