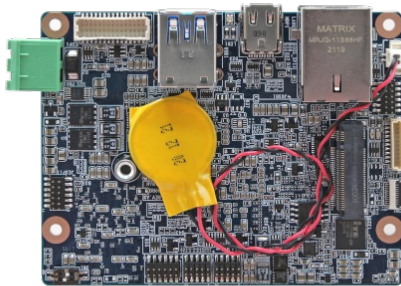




EZX-EHLP

Intel® Elkhart Lake 1.8" SBC



- > Bottom Layer Soldered Processor
- > Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® J Series processors
- > Onboard Single channel LPDDR4 4GB memory down (8GB for BOM option)
- > Dual Display, Mini DP, eDP 1.3
- > M.2 Key-B 3042/2242 bridge bracket to 3052 (with PCI-e x2 (via OEM BIOS request) or default (PCI-e x1+USB2.0/USB3.0), or (SATAIII+ USB2.0/USB3.0), SIM Slot for SSD/LTE/IO Cards) with FPC connector
- > Single Intel® I210AT/IT Gigabit Ethernet
- > 1 x Dual deck USB3.1 gen2 Type A for 2 x USB 3.1 Gen2 at I/O, 4 x USB 2.0 by pin header
- > 1 x RS-232/422/485
- > GPIO 8bit
- > DC-In+12V

+ Spec

| -System Information- | |
|----------------------------------|--|
| Processor | Onboard Intel® Pentium®/Celeron®/Atom™ SoC BGA Processor (Elkhart Lake Platform 4.5~12W)- (with CPU Bottom Mounted) |
| Platform Controller Hub | Elkhart lake SoC integrated |
| System Memory | Onboard Single channel LPDDR4 4GB memory down (8GB for BOM option) |
| I/O Chipset | EC ITE IT5571 |
| BIOS Information | AMI BIOS, 256Mbit SPI Flash ROM |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step |
| H/W Status Monitor | CPU & system temperature monitoring Voltages monitoring |
| TPM | Onboard eMMC 5.1 64GB |
| Expansion | |
| Expansion | 1 x M.2 Type B 3042/2242 bridge bracket to 3052 (with PCI-e x2 (via OEM BIOS request) or default (PCI-e x1+USB2.0/USB3.0), or (SATAIII+ USB2.0/USB3.0), SIM Slot for SSD/LTE/IO Cards) *Default is PCI-e x1/SATAIII+USB2.0/USB3.0 support WWAN+GNSS or NVMe SSD |
| Storage | |
| Storage | 1 x M.2 Type B |
| I/O | |
| USB Port | 1 x Dual deck USB3.1 gen2 Type A for 2 x USB 3.1 Gen2 at I/O 4 x USB2.0 fby pin header |
| COM Port | 1 x RS232/422/485 |
| DIO | 1 x 8-bit GPIO |
| Display | |
| Graphic Chipset | Intel® UHD Graphics |
| Spec. & Resolution | Mini DP: Max resolution 4096x2160@60Hz eDP1.3: Max resolution 4096x2160@60Hz |
| Multiple Display | Dual Display |
| Certifications | |
| Certification Information | CE FCC Class B |
| Ethernet | |
| LAN Chipset | 1 x Intel I210AT/IT Gigabit Ethernet |
| Ethernet Interface | 1 x 10/100/1000 Base-Tx GbE compatible |
| LAN Port | 1 x RJ-45 |
| Mechanical & Environmental | |
| Operating Temperature | 0~60°C, w/HDD/SSD, ambient with 0.5 m/s Air flow Elkhart Lake N/J Series CPU SKU -20~60°C, w/HDD/SSD, ambient with 0.5 m/s Air flow Elkhart Lake Atom x6000E Series CPU SKU |
| Storage Temperature | -40°C ~ 75°C (-40°F ~ 167°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Weight | 0.30kg |
| Power Requirement | DC in +12V |
| ACPI | Single power ATX Support S0,S3, S4, S5 ACPI 5.1 Compliant |
| Power Mode | AT / ATX mode Switchable Through Jumper |
| Dimension (L x W) | 84mm (3.31") x 65mm (2.55") |
| Software Support | |
| OS Information | Win 10 64bit Linux |
| Ordering Information | |



Ordering Information

EZX-EHLP-J6412-A1R
EZX-EHLP-J6413-A1R
EZX-EHLP-X11E-A1R
EZX-EHLP-X13E-A1R
EZX-EHLP-X12RE-A1R
Intel® Pentium®/Celeron®/Atom™ SoC BGA Processor 1.8" SBC Motherboard