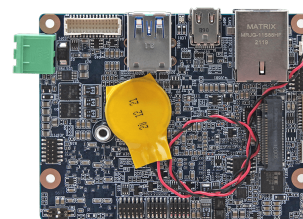


EZ-X-EHLP

Intel® Elkhart Lake 1.8" SBC



Specification

System Information	
H/W Status Monitor	CPU & system temperature monitoring Voltages monitoring
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
BIOS	AMI BIOS, 256Mbit SPI Flash ROM
I/O Chipset	EC ITE IT5571
Platform Controller Hub	Elkhart lake SoC integrated
TPM	Onboard eMMC 5.1 64GB
System Memory	Onboard Single channel LPDDR4 4GB memory down (8GB for BOM option)
Processor	Onboard Intel® Pentium®/Celeron®/Atom™ SoC BGA Processor (Elkhart Lake Platform 4.5~12W)- (with CPU Bottom Mounted)
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	
DIO	1 x 8-bit GPIO
COM Port	1 x RS232/422/485
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
Display	
Spec. & Resolution	Mini DP: Max resolution 4096x2160@60Hz eDP1.3: Max resolution 4096x2160@60Hz
Graphic Chipset	Intel® UHD Graphics
Multiple Display	Dual Display
Software Support	
OS	Win 10 64bit Linux

Certifications

Certification Information	CE FCC Class B
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Ethernet

LAN Port	1 x RJ-45
LAN Chipset	1 x Intel I210AT/IT Gigabit Ethernet
Ethernet Interface	1 x 10/100/1000 Base-Tx GbE compatible

Power Requirement

Power Mode	AT / ATX mode Switchable Through Jumper
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Mechanical & Environmental

ACPI	Single power ATX Support S0,S3, S4, S5 ACPI 5.1 Compliant
Power Requirement	DC in +12V
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
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Dimension (L x W)	84mm (3.31) x 65mm (2.55)
Weight	0.30kg

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
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