



EPX-EHLP

Intel® Atom® x6000E and Celeron® series® Processor Pico ITX Motherboard

- > Intel® Atom® x6000E and Intel® Celeron® Series Processors with CPU Bottom Mounted
- > 1 x 260-pin DDR4 2666MHz SO-DIMM supports up to 32GB (Only Atom® x6000 Series Processors support IBCEC)
- > 1 x Dual stack DP, Single channel 18/24-bits LVDS
- > 2 x Intel® i226LMIT 2.5G Gigabit Ethernet
- > 1 x M2 (2242/2260) B-Key, 1 x M2 (2230) E-Key support Wifi module
- > 4 x USB 2.0 by pin header, 1 x dual stack USB 3.1 Gen2 at I/O
- > 1 x RS232, 1 x RS232/422/485, 4-bit GPIO
- > DC in +12V

+ Spec

-System Information-

Processor	Intel® Atom® x6000E and Celeron® Series processors
System Memory	1 x 260-pin DDR4 2666MHz SO-DIMM supports up to 32GB
I/O Chipset	EC iTE IT5571
BIOS Information	AMI 256Mbit SPI BIOS
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control

Expansion

Expansion	1 x M.2 Type B 2242/2260 with (1 x PCIe x2 via OEM BIOS request) or (1 x PCIe x1 + USB3.1 GEN 1)-Default or (1 x SATA III + USB3.1 GEN 1), USB2.0 Signal support SSD. (Default: SATA)
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I/O

USB Port	4 x USB 2.0 by pin header 1 x dual stack USB 3.1 Gen2 at I/O
COM Port	1 x RS232, 1 x RS232/422/485
DIO	1 x 4-bit GPIO

Display

Graphic Chipset	Intel® UHD Graphics for 10th Gen Intel® Processors
Spec. & Resolution	One dual deck DP(Upper DP, Lower DP++): 4096 x 2160@60 Hz LVDS: 1366x768 Single channel 18/24-bits LVDS (Chrontel CH7511B-BF (CH7511B-BFI for wide temp version) eDP to LVDS)
LVDS	1CH 18/24bits LVDS 1366x768 Chrontel. CH7511B eDP to LVDS Converter

Ethernet

LAN Chipset	2 x Intel® i226LM(i226IT for wide temp version) 2.5 Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx GbE compatible 2.5 Gigabit Ethernet
LAN Port	2 x RJ45

Mechanical & Environmental

Operating Temperature	0~60°C (32~140°F) Elkhart Lake J Series CPU SKU -20~60°C (-4~140°F) Elkhart Lake Atom Series CPU SKU w/HDD/SSD, ambient with 0.5 m/s Air flow
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.66lbs (0.3Kgs)
Power Requirement	+12V
Power Mode	AT/ATX
Dimension (L x W)	3.94" x 2.83" (100mm x 72mm)

Ordering Information

Ordering Information	EPX-EHLP-J6412-A1R EPX-EHLP-J6413-A1R EPX-EHLP-X11E-A1R EPX-EHLP-X13E-A1R Intel® Celeron®/Atom™ SoC BGA Processor 2.5" Pico ITX SBC Motherboard
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