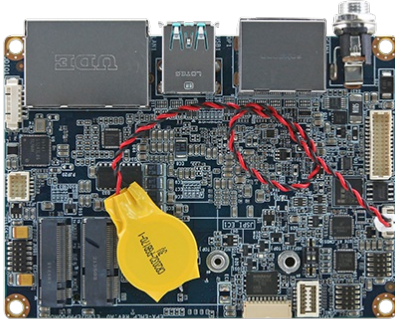




## EPX-EHLP

### Intel® Atom® x6000E Series and Celeron® J series® Processor Pico ITX Motherboard



- > Intel® Atom® x6000E Series and Intel® Celeron® J Series processors with CPU Bottom Mounted
- > 1 x 260-pin DDR4 2666MHz SO-DIMM supports up to 32GB (Only Atom® x6000 Series Processors support IB ECC)
- > 1 x Dual deck DP, Single channel 18/24-bits LVDS
- > 1 x Intel® i211AT/IT Gigabit Ethernet, 1 x Intel® i226LM/IT 2.5G Gigabit Ethernet
- > 1 x M.2 (2242/2260) B-Key, 1 x M.2 (2230) E-Key support Wifi module
- > 4 x USB 2.0 by pin header, 2 x USB 3.1 Gen2 at I/O
- > 1 x RS232, 1 x RS232/422/485, 4-bit GPIO
- > DC in +12V

#### + Spec

System Information	
<b>Processor</b>	Intel® Atom® x6000E Series and Celeron® J Series processors
<b>System Memory</b>	1 x 260-pin DDR4 2666MHz SO-DIMM supports up to 32GB
<b>I/O Chipset</b>	EC iTE IT5571
<b>BIOS Information</b>	AMI 256Mbit SPI BIOS
<b>Watchdog Timer</b>	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
<b>Expansion</b>	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)
I/O	
<b>USB Port</b>	4 x USB 2.0 2 x USB 3.1 Gen2
<b>COM Port</b>	1 x RS232, 1 x RS232/422/485
<b>DIO</b>	1 x 4-bit GPIO
Display	
<b>Graphic Chipset</b>	Intel® UHD Graphics for 10th Gen Intel® Processors
<b>Spec. &amp; Resolution</b>	One dual deck DP(Upper DP, Lower DP++): 4096 x 2160@60 Hz LVDS: 1920 x 1080 Single channel 18/24-bits LVDS (Chrontel CH7511B-BF (CH7511B-BFI for wide temp version) eDP to LVDS)
<b>LVDS</b>	1CH 18/24bits LVDS 1920 x 1080 Chrontel. CH7511B eDP to LVDS Converter
Ethernet	
<b>LAN Chipset</b>	1 x Intel® i226LM(i226IT for wide temp version) 2.5 Gigabit Ethernet 1 x Intel® I211AT/IT Gigabit Ethernet
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible 2.5 Gigabit Ethernet
<b>LAN Port</b>	2 x RJ45
Mechanical & Environmental	
<b>Operating Temperature</b>	-5 ~ 60°C (23 ~ 140°F)
<b>Storage Temperature</b>	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
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	0.66lbs (0.3Kgs)
<b>Power Requirement</b>	+12V
<b>Power Mode</b>	AT/ATX
<b>Dimension (L x W)</b>	3.94" x 2.83" (100mm x 72mm)
Ordering Information	
<b>Ordering Information</b>	EPX-EHLP-J6412-A1R EPX-EHLP-J6413-A1R EPX-EHLP-X13E-A1R Intel® Celeron®/Atom™ SoC BGA Processor 2.5" Pico ITX SBC Motherboard