

NANO-EHL

EPIC SBC supports Intel® Celeron® on-board SoC, with 8GB LPDDR4x memory on board default, with DP, HDMI™, iDPM, M.2 A key, M.2 B key, USB 3.1, SATA 6Gb/s, COM, iAUDIO, PCIe x4 (x2 signal) for riser card and RoHS



Features

- » Support Intel® Atom™ x6000 series / Pentium® / Celeron® processor (Elkhart Lake platform)
- » Support dual Intel® I225V/I226V 2.5GbE Ethernet controller
- » Support triple independent displays via DP, HDMI™ and iDPM
- » Support one PCIe Gen3 x4, one M.2 A key and one M.2 B Key expansions
- » Support two USB 3.2 Gen2, four USB 2.0, four RS-232, two RS-232/422/485

Specifications

Form Factor	
Form Factor	EPIC SBC
System	
CPU	Onboard Intel® Atom™ x6000 series Celeron® processor (Elkhart Lake platform) Intel® Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W)
Memory	LPDDR4x-3200Gbps 8GB, up to 16GB
Memory Max.	16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	165mm x 115mm
Net Weight	350g
Storage	
Storage	2 x SATA - 1 x SATA 6Gb/s with 5V SATA power connector 1 x iSATA
I/O Interface	
Display Output	1 x HDMI™ : up to 4096 x 2160 @30Hz 1 x DP++ : up to 4096 x 2160 @60Hz 1 x iDPM : support iEi eDP/ LVDS/ VGA module
Ethernet	2 x LAN - LAN1: Intel® I225V/I226V 2.5GbE controller LAN2: Intel® I225V/I226V 2.5GbE controller
Audio	1 x HD Audio : 1 x iAUDIO(2 x 5 pin, support IEI AC-KIT-888HD Module)
I/O Interface	4 x Internal RS-232 : 2x5 pin, P=2.0 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0 2 x External USB 2.0 : Type A 2 x Internal USB 2.0 : 2x4 pin, P=2.0 2 x External USB 3.2 Gen2x1 : 10Gb/s(Type A)
Expansion	1 x PCIe x4 : PCIe Gen3 x4 (x2 signal) 2 x M.2(NGFF) - 1 x M.2 B Key (2242/2280) PCIe Gen3 x2&USB2.0 1 x M.2 A Key (2230) PCIe Gen3 x1/USB2.0
Power	
Power Consumption	12V@2.75A

	(Intel® Celeron® J6412 CPU with 8 GB 3200 MHz LPDDR4x memory, max. loading, EuP mode disabled)
Power Supply	1 x Internal power connector (2x2 pin)
	Support AT/ATX mode
Environment	
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~70°C
Humidity	5% ~95%, non-condensing

Ordering Information

NANO-EHL-J6412C-R11	EPIC SBC supports Intel® quad-core Celeron® J6412 2.0GHz on-board SoC, with 8GB LPDDR4x memory on board default, with DP, HDMI,iDPM,Intel® I226V, M.2 A & M & B key, USB 3.2, SATA 6Gb/s, COM, iAUDIO,PCIe x2 for riser, RoHS
---------------------	---

Packing List

1 x NANO-EHL single board computer	1 x SATA cable
1 x iSATA cable	1 x Power cable
1 x QIG	