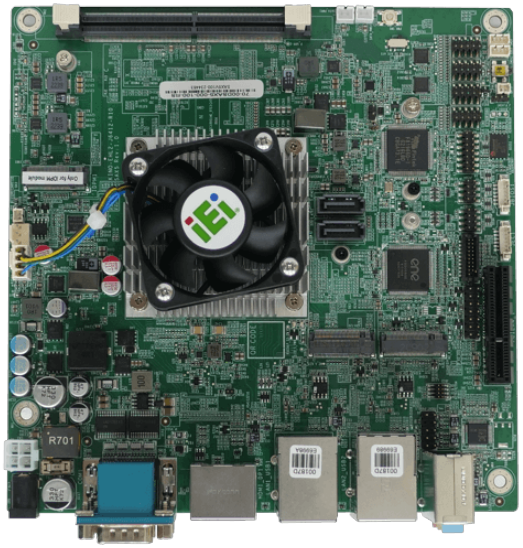
KINO-EHL2

Mini-ITX SBC supports Intel® Elkhart Lake Celeron® on-board SoC with Triple Independent Display, HDMI™, DP, iDPM, SATA 6Gb/s, Dual 2.5GbE, USB 3.2, M.2, 12~28V DC input and RoHS



Features

» Mini-ITX SBC supports Intel® Elkhart Lake Celeron® J6412

» Support Triple independent displays via HDMI™,DP,iDPM

» Support dual Intel® i225V 2.5GbE ports

» Support one PCIe Gen3 x4 slot,M.2 A key and M.2 B key expansions

» Two USB 3.2 Gen2, six USB 2.0, four RS-232, two RS-422/485

Specifications

System	
CPU	Mini-ITX SBC supports Intel® Elkhart Lake Celeron® J6412 on-board SoC with Triple Independent Display, HDMI™, DP, iDPM, SATA 6Gb/s, Dual 2.5GbE, USB 3.2, M.2, 12 ~ 28V DC input and RoHS
Memory	260-pin 3200 MHz DDR4 SO-DIMM, system up to 16GB
Memory Max.	up to 16GB
Cooling method / System Fan	1 x CPU fan connector (1x4 pin)
	1 x System fan connector (1x3 pin)
Storage	
Storage	1 x SATA : 6Gb/s with 5V SATA power connector
I/O Interface	
Display Output	1 x Display Port : up to 4096 x 2160@60Hz
	1 x HDMI™ : up to 4096 x 2160@30Hz
	1 x iDP : IEI iDPM 3040 slot (only for IEI eDP/LVDS/VGA module)
Ethernet	2 x LAN -
	LAN1: Intel® I225V 2.5GbE controller
	LAN2: Intel® I225V 2.5GbE controller
Audio	HD Audio - Realtek ALC888S HD Audio codec :
	3 x Audio Jack (Line-in, Line-out, Mic-in)
	1 x Analog audio (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin)
	2 x External RS-232
	2 x External USB 2.0 : 2x4 pin, p=2.00
	2 x External USB 3.2 Gen2x1 : 10Gb/s
	2 x Internal RS-232 : 2x5 pin, P=2.00
	2 x Internal RS-232/422/485 : 2x5 pin, P=2.00
	4 x Internal USB 2.0 : 2x4 pin, P=2.00
Expansion	2 x M.2(NGFF) -
	1 x M.2 A key (2230) (PCIex1 & USB 2.0)
	1 x M.2 B key (3052/3042/2242/2280) w/ SIM holder (PCIe x2 / USB 2.0)

	1 x PCIe x4 : PCIe Gen3 x1 signal
Other Features	
TPM	Intel® PTT(TPM 2.0)
Power	
Power Consumption	12V@3.23A, 19V@2.15A, 24V@1.74A, 28V@1.53A (Intel® Celeron® J6412 2.0GHz with 32GB 3200MHz DDR4 memory and EUP enabled)
Power Supply	12 ~ 28V DC input
	1 x Internal power connector (2x2 pin)
	1 x External DC power jack (Ø2.5mm)
	ErP/EuP Compliant
Environment	
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~ 95%, non-condensing
Certifications	
Safety & EMC	CE/FCC compliant

Ordering Information

KINO-EHL2-J6412-R10	Mini-ITX SBC supports Intel® Elkhart Lake Celeron® J6412 on-board SoC with Triple Independent Display, HDMI™, DP,iDPM, SATA 6Gb/s, Dual 2.5GbE, USB 3.2, M.2, 12~28V DC input and RoHS

Packing List

1 x KINO-EHL2 single board computer	1 x SATA cable
1 x I/O shielding	1 x QIG