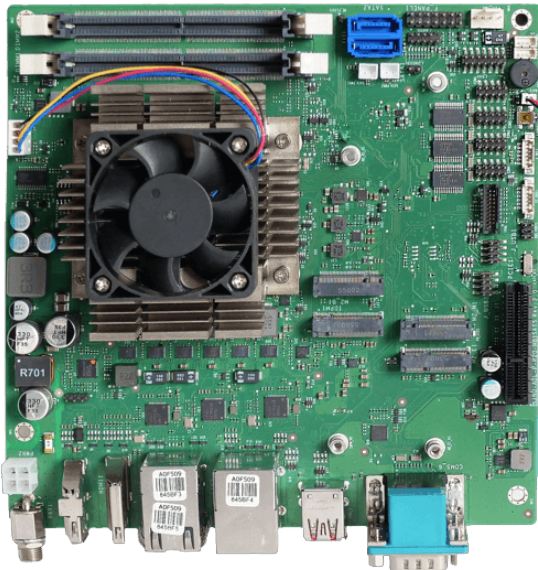


KINO-RPLH

12th/13th Gen. Intel® Alder Lake-P/Raptor Lake on board SoC



Features

- » 12th/13th Gen. Intel® Alder Lake-P/Raptor Lake on board SoC
- » 2 x 262-pin 4800 MHz DDR5 SO-DIMM, system up to 64G
- » Triple independent display via HDMI, DP and iDPM
- » Support triple Intel® I226V and I226LM 2.5GbE controller
- » Support PCIe x4, M.2 M key, M.2 B key and M.2 E key expansion

Specifications

Form Factor	
Form Factor	Mini-ITX SBC
System	
CPU	Support 12/13th Intel® mobile Alder Lake-P/Raptor Lake on-board processor
Memory	2 x 262-pin 4800 MHz DDR5 SO-DIMM
Memory Max.	up to 64G
Cooling method / System Fan	1 x CPU fan connector (1x4 pin)
	1 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	170mm x 170mm
Net Weight	GW: 900g / NW: 450g
Storage	
Storage	2 x SATA : 6Gb/s
I/O Interface	
Display Output	1 x Display Port : DP 1.4 (up to 4096 x 2160 @60Hz)
	1 x HDMI™ : 1.4 (up to 4096 x 2160 @30Hz)
	1 x iDPM : IEI iDPM 3040 slot (only for IEI eDP/ LVDS/ VGA module)
Ethernet	3 x LAN -
	LAN1: Intel® I226LM 2.5GbE controller
	LAN2: Intel® I226V 2.5GbE controller
	LAN3: Intel® I226V 2.5GbE controller
Audio	1 x HD Audio : iAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)
I/O Interface	1 x DIO : 12-bit digital I/O (2x7 pin)
	2 x External RS-232/422/485
	4 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s
	1 x I²C : 1x4 pin
	4 x Internal RS-232 : 2x5 pin, P=2.0
	4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	1 x PCIe x4 : PCIe Gen3 x4 Slot Open-ended
Other Features	

TPM	1 x TPM 2 x10 pin ,support Intel PTT
Power	
Power Consumption	12V@1.52A, 19V@1.06A, 24V@0.81A, 28V@0.709A
	(12th Gen Intel® Core™ i7-1270PE CPU with 32 GB 4800 MHz DDR5 memory, max. loading, EuP mode enabled)
Power Supply	inputvoltage range, 12~28V
	1 x internal power connector (2x2 pin)
	1 x external DC power jack (Ø2.6mm)
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
Card Slot Interface	
M.2	1 x M.2 E Key for WIFI & BT 2230 (PCIe Gen3 x1 & USB 2.0)
	1 x M.2 B key 3042 (PCIe Gen3 x2 / USB2.0)
	1 x M.2 M key 2280 (PCIe Gen3 x4)

Ordering Information

KINO-RPLH-i7E-R20	Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-H Core™ i7-1370PE SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display,SATA,Triple Intel 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-RPLH-i5E-R20	Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-H Core™ i5-1340PE SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display,SATA,Triple Intel 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-RPLH-i3E-R20	Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-H Core™ i3-1320PE SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display,SATA,Triple Intel 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-RPLH-CE-R20	Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-H Celeron® 7305E SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display,SATA,Triple Intel 2.5GbE,USB3.2,M.2,SoC,RoHS

Packing List

1 x KINO-RPLH single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG