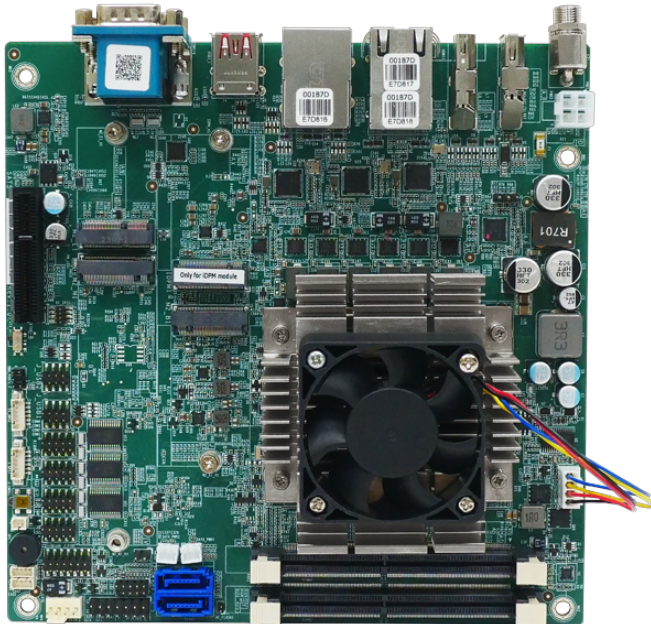


# KINO-ADL-P

Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-P SoC Processor, DDR4 SO-DIMM, 12~28V DC input, Triple Display, Triple Intel® 2.5GbE, USB 3.2, SATA 6Gb/s, RoHS



## Features

- » Support 12/13th Intel® mobile Alder Lake-P/Raptor Lake-P on-board processor
- » Dual-channel DDR4 3200MHz
- » Support triple independent display via HDMI™, DP and iDPM
- » Support PCIe Gen3 x4, M.2 M key, M.2 B key and M.2 E key expansion

## Specifications

Form Factor	
Form Factor	Mini-ITX Motherboard
System	
CPU	Intel® 12/13th mobile Alder Lake-P/Raptor Lake-P on-board processor, support Intel® Core™ i9/i7/i5/i3 and Celeron® CPU
Memory	2 x 260-pin 3200 MHz DDR4 SO-DIMM (system up to 64G)
Memory Max.	64GB
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	700g
Storage	
Storage	2 x M.2(NGFF) - 1 x M.2 B key 3042 (PCIe Gen3 x2/USB2.0) 1 x M.2 M key 2280 (PCIe Gen3 x4) 2 x SATA : RAID 0/1/5/10 supported
I/O Interface	
Display Output	1 x Display Port : up to 4096 x 2304 @60Hz 1 x HDMI™ : up to 4096 x 2304 @60Hz 1 x iDPM : support iEi eDP/ LVDS/ VGA module
Ethernet	3 x LAN - LAN1: Intel® I225LM 2.5GbE controller LAN2: Intel® I225V 2.5GbE controller LAN3: Intel® I225V 2.5GbE controller
Audio	1 x HD Audio : 1 x iAUDIO supports IEI AC-KIT-888S Audio Kit (2x5 pin)
I/O Interface	2 x External RS-232/422/485 4 x External USB 3.2 Gen2x1 : 10Gb/s

	4 x Internal RS-232 : 2x5 pin, P=2.0
	4 x Internal USB 2.0 : 2x4 pin, P=2.0
Expansion	3 x M.2(NGFF) -
	1 x M.2 E Key 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)
	1 x PCIe x4
<b>Power</b>	
Power Consumption	12V@5.09A, 19V@3.25A, 24V@2.58A, 28V@2.23A
	(12 th Gen Intel® Core™ i7-1270PE CPU with 32 GB 3200 MHz DDR4 memory, max. loading, EuP mode disabled)
Power Supply	input voltage range: 12~28V
	1 x internal power connector (2 x 2 pin)
	1 x external DC power jack (Ø 2.6 mm)
	ErP/EuP Compliant
<b>Environment</b>	
Operating Temperature	0°C~60°C
Storage Temperature	-30°C~70°C
Humidity	5% ~95%, non-condensing

## Ordering Information

KINO-ADL-P-i7-R10	Mini-ITX SBC with Intel® Alder Lake-P Core™ i7-1260P SoC Processor,DDR4 SO-DIMM, 12~28V DC input, Quad Display,SATA,Triple Intel® 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-ADL-P-i5-R10	Mini-ITX SBC with Intel® Alder Lake-P Core™ i5-1240P SoC Processor,DDR4 SO-DIMM, 12~28V DC input, Quad Display,SATA,Triple Intel® 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-ADL-P-i3-R10	Mini-ITX SBC with Intel® Alder Lake-P Core™ i3-1220P SoC Processor,DDR4 SO-DIMM, 12~28V DC input, Quad Display,SATA,Triple Intel® 2.5GbE,USB3.2,M.2,SoC,RoHS
KINO-ADL-P-C-R10	Mini-ITX SBC with Intel® Alder Lake-P Celeron® 7305 SoC Processor,DDR4 SO-DIMM, 12~28V DC input, Triple Display,SATA,Triple Intel 2.5GbE,USB3.2,M.2,SoC,RoHS

## Packing List

1 x KINO-ADL-P single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG