

KINO-ADL-P

Mini-ITX SBC with Intel® Alder Lake-P/Raptor Lake-P SoC Processor

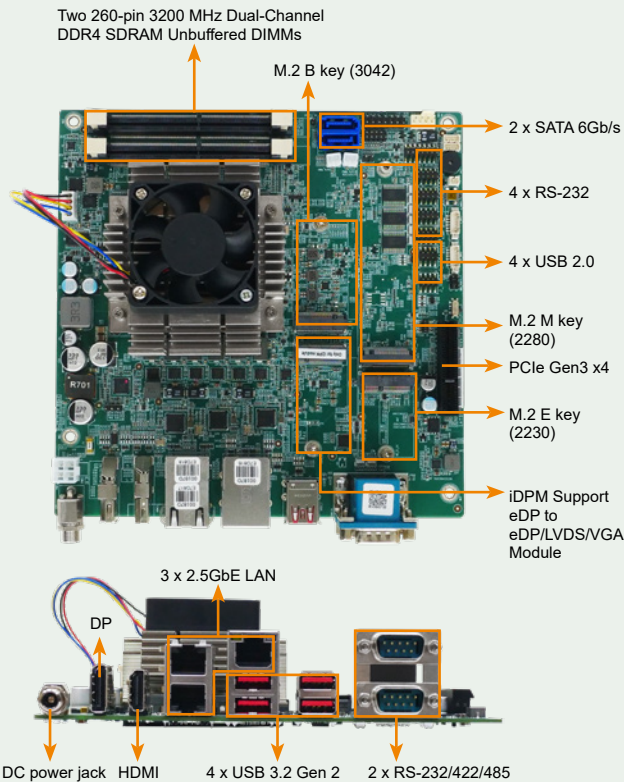
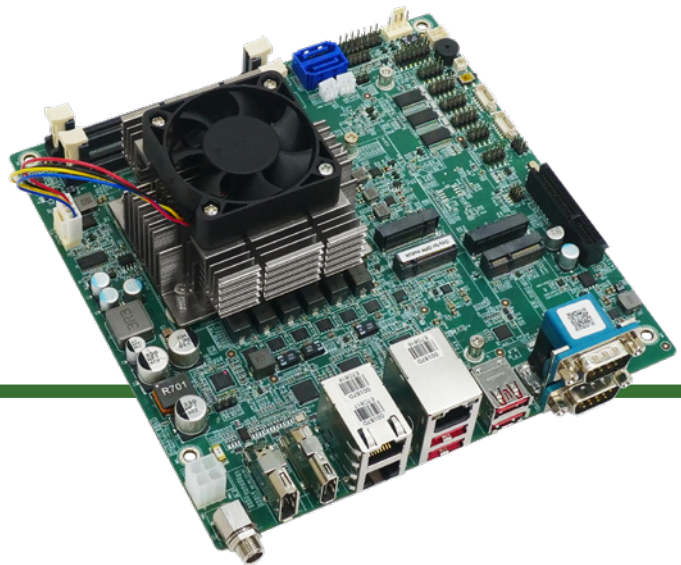
- Dual-channel 3200MHz DDR4 SO-DIMMs
- Support DisplayPort 1.4a, HDMI 2.0b & iDPM slot for eDP/ LVDS/VGA module
- Triple Intel® i225-V/i225-LM 2.5 GbE LAN
- Support PCIe Gen3 x4, M.2 M key, M.2 B key and M.2 E key expansion

**High Performance Capability
with multi-tasking function**



KINO-ADL-P

Mini-ITX SBC with Intel® Alder Lake-P SoC Processor, DDR4 SO-DIMM, 12~28V DC input, Triple Display, Triple Intel 2.5GbE



Support Intel® 12/13th mobile SOC processor

Equipped with Alder Lake-P/Raptor Lake-P Core™ i7/i5/i3 and Celeron® on-board processor.



Support Intel® I225V 2.5GbE Network Controller

Three Gigabit RJ45 network ports are provided via Intel® I225V/I225LM 2.5GbE network controller to achieve up to 2.5GbE network transmission rate.



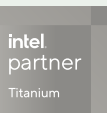
Abundant Expansion Slots

The KINO-ADL-P provides PCIe x4 (Gen 3) for expansion, M.2 E key for Bluetooth, WiFi module expansion, M.2 B key can be used for 5G module expansion and M.2 M key for NVME storage expansion

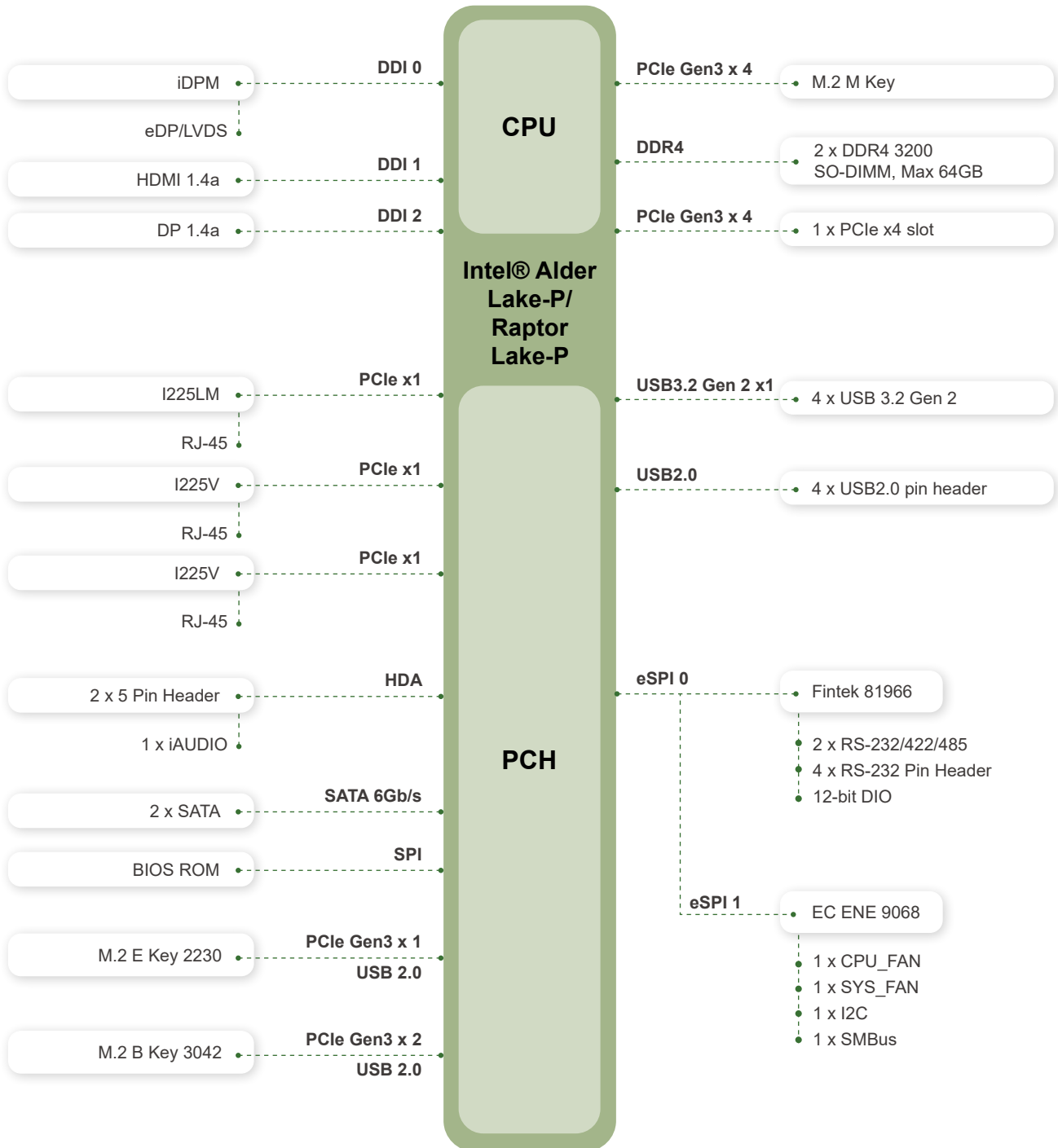


IEI-specific iDPM Interface

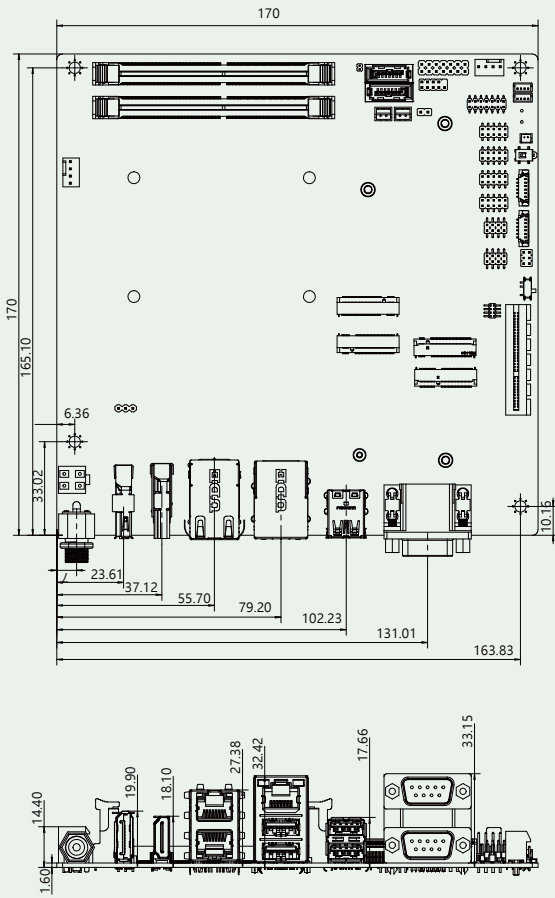
IEI uniquely designs a iDPM interface that can connect to display modules, enabling users to add LVDS/eDP/VGA display interface upon requirements.



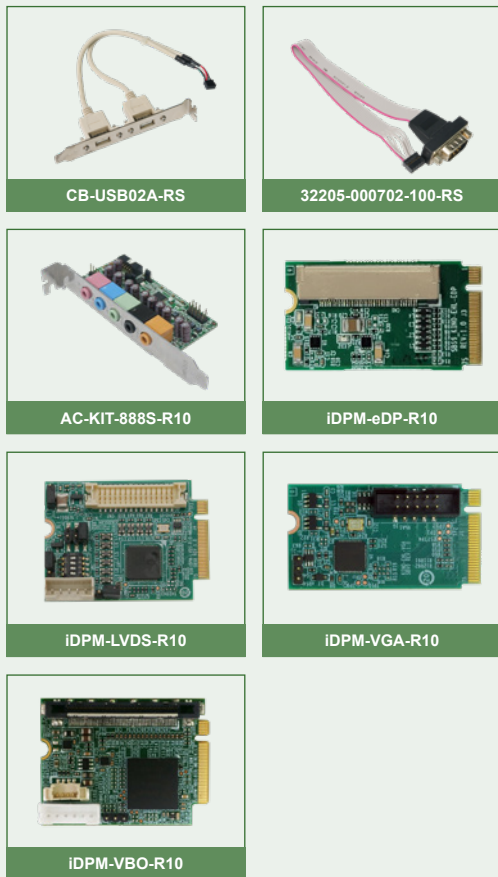
Block Diagram



Dimensions



Optional Accessories



Specifications

Model	KINO-ADL-P
CPU	12/13th Gen. Intel® mobile Alder Lake-P on-board processor
BIOS	AMI UEFI BIOS
Memory	2 x 260-pin 3200 MHz DDR4 SO-DIMM, system up to 64G
Graphics Engine	Intel® UHD Graphics for Celeron® 7305E and i3-12300HE Intel® Xe Graphics for i5-1250PE and i7-1270PE
Display Output	Triple independent display 1 x HDMI 1.4 (up to 4096 x 2160 @30Hz) 1 x DP 1.4 (up to 4096 x 2160 @60Hz) 1 x IEI iDPM 3040 slot (only for IEI eDP/ LVDS/ VGA module)
Ethernet	LAN1: Intel® I225LM 2.5GbE controller LAN2: Intel® I225V 2.5GbE controller LAN3: Intel® I225V 2.5GbE controller
External I/O Interface	4 x USB 3.2 Gen 2 (10Gb/s) 2 x RS-232/422/485
Internal I/O Interface	2 x SATA 6Gb/s 4 x USB 2.0 (2x4 pin, P=2.0) 4 x RS-232 (2x5 pin, P=2.0)
SMBus	1 x SMBus (1x4 pin)
I2C	1 x I ² C (1x4 pin)
Audio	1 x iAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)
Front Panel	1 x Front Panel (2x7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
Expansion	1 x PCIe Gen3 x4 Slot Open-ended 1 x M.2 E Key for WIFI & BT 2230(PCLie 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)
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
TPM	Intel® PTT(TPM 2.0)
Fan connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Power Supply	inputvoltage range, 12~28V 1 x internal power connector (2x2 pin) 1 x external DC power jack (Ø2.6mm) ErP/EuP Compliant
Watchdog Timer	Software Programmable support 1~255 sec. System reset
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)
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Dimension	170 mm x 170 mm
Weight	GW:900g / NW:450g
Certification	CE/FCC Compliant

Packing List

1 x KINO-ADL-Psingle board computer	1 x SATA cable
1 x I/O Shielding	1 x QIG

Ordering Informaiton

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
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, Triple 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, Triple Display,SATA,Triple Intel® 2.5GbE, USB3.2, M.2,SoC,RoHS
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, Triple Display,SATA,Triple Intel® 2.5GbE, USB3.2, M.2,SoC,RoHS

Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.0
32205-000702-100-RS	RS-232 cable, 200 mm, p=2.0 mm
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board,RoHS
iDPM-eDP-R10	eDP to eDP DisplayPort converter board (for IEI iDPM connector)
iDPM-LVDS-R10	eDP to LVDS DisplayPort converter board (for IEI iDPM connector)
iDPM-VGA-R10	eDP to VGA Connector converter board (For IEI Display Module)
iDPM-VBO-R10	DisplayPort to V-BY-ONE Connector converter board (For iEi Display Module)