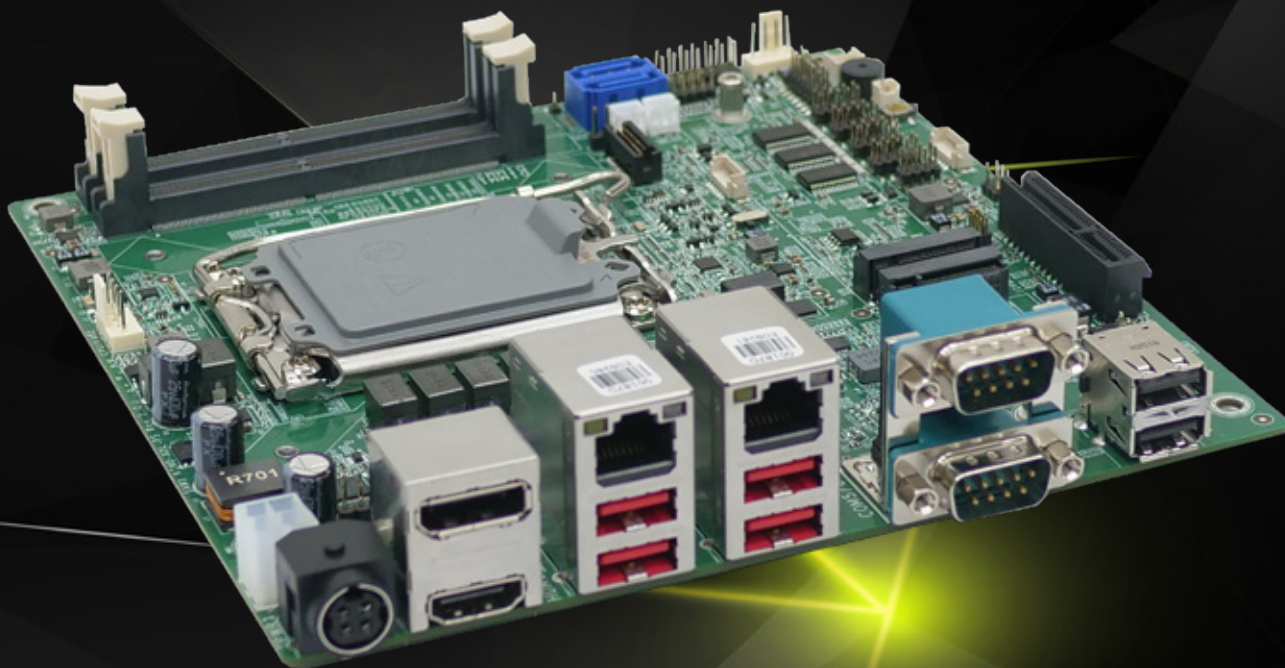


KINO-ADLPS

Mini-ITX SBC support Intel® Alder Lake-PS/ Raptor Lake-PS Core™ i7/i5/i3 and Celeron® processor (socket)

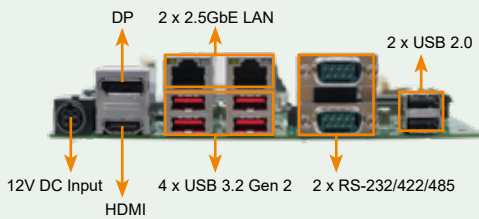
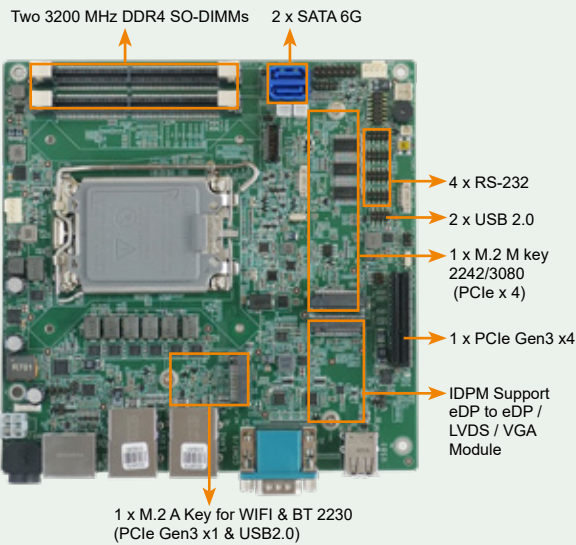
- Support two 3200MHz DDR4 SO-DIMM
- Triple independent display:
DP 1.4a, HDMI 2.0b & iDPM slot for eDP/ LVDS/VGA module
- Support dual Intel® I226-V 2.5GbE controllers
- Support PCIe Gen3 x4, M.2 M key, and M.2 A key expansion



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KINO-ADL-PS

Mini-ITX SBC support Intel® Alder Lake-PS/
Raptor Lake-PS Core™ i7/i5/i3 and Celeron®
processor (socket)



Support Intel® mobile Alder Lake-PS/ Raptor Lake-PS socket processor

Equipped with 12th Celeron® 7305L, Core™ i3-1215UL, Core™ i5-1245UL and Core™ i7-1265UL processor (socket)



Support Intel® I226-V 2.5GbE Network Controller

Two RJ45 network ports are provided via Intel® I226-V 2.5GbE network controller to achieve up to 2.5GbE network transmission rate



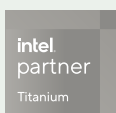
Abundant Expansion Slots

The KINO-ADLPS provides PCIe x4 (Gen 4) for expansion, M.2 A key for Bluetooth and Wi-Fi modules, M.2 M key for NVME storage

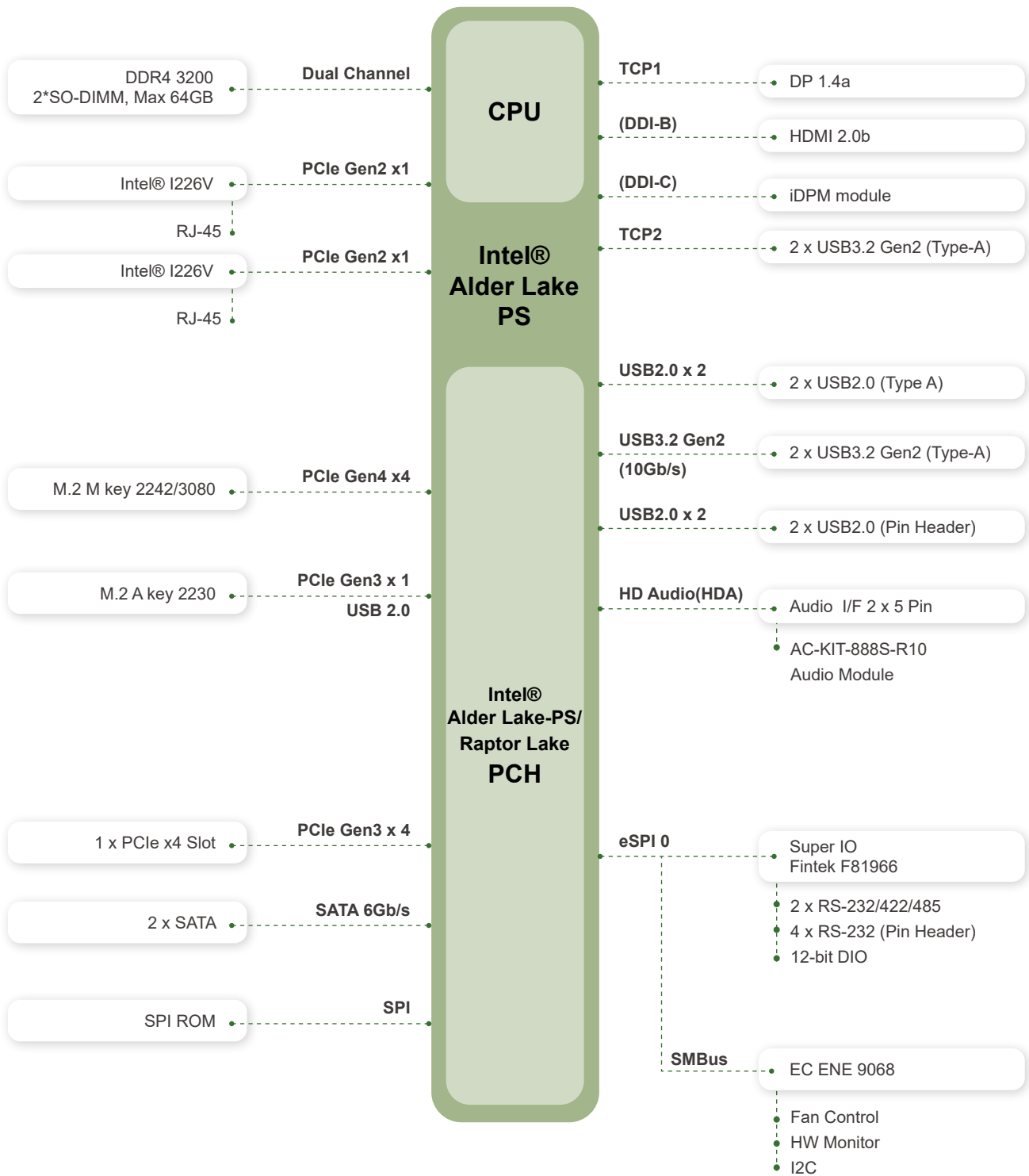


IEI-specific iDPM Interface

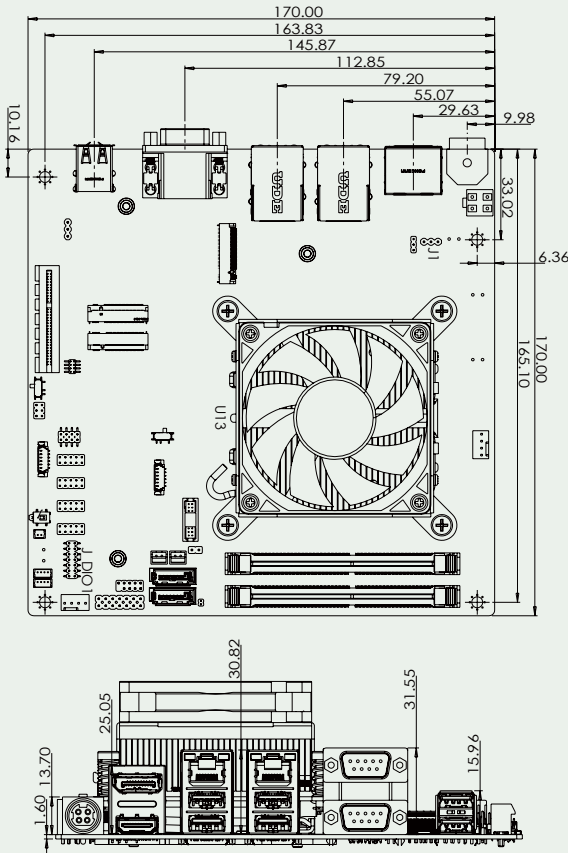
IEI uniquely designs a iDPM interface that can connect to display modules, enabling users to add LVDS/eDP/VGA display interface upon requirements.



Block Diagram



Dimensions



Optional Accessories



Specifications

Model	KINO-ADL-PS
SoC	Intel® Alder Lake-PS/ Raptor Lake CPU (15~45W)
BIOS	**AMI UEFI BIOS
Memory	Two 3200 MHz DDR4 SO-DIMMs
Graphics Engine	Intel Iris XeGraphics architecture with up to 96 EUs, 4 Independent Displays (up to 8K), Pipe Lock (Display Synchronization) & SRIOV
Display Output	1 x DP 1.4 (up to 4096 x 2304 @60Hz) 1 x HDMI 2.0 (up to 4096 x 2304 @60Hz) 1 x iDPM support iEI eDP/LVDS/VGA module
Ethernet	LAN1: Intel® I226-V 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller
External I/O Interface	2 x RS232/422/485 via DB-9 (RS-485 support AFC) 2 x USB 2.0 (Type A) 2 x USB 3.2 Gen 2 (Type A) (10Gb/s) 2 x USB 3.2 Gen 2 (Type A) (10Gb/s)
Internal I/O Interface	2 x SATA 6Gb/s 2 x USB 2.0 (2 x 4 pin, P=2.0) 4 x RS-232 (2 x 5 pin, P=2.0)
SMBus/ I2C	1 x I2C (1x4 pin, P=2.0)
TPM	Intel®PTT/TPM 2.0
Audio	1 x IAUDIO, support IEI AC-KIT-888s Audio Module (2x5 pin)
Front Panel	1 x Front Panel Power LED & HDD LED (1x6 pin) 1 x Power button (1x2 pin) 1 x Reset button (1x2 pin)
Expansion	1 x PCIe Gen3 x4 (x4 + x2 +x2 & x2 + x1 + x1) 1 x M.2 A Key for WIFI & BT 2230 (PCIe Gen3 x1 & USB2.0) 1 x M.2 M Key 2242/3080 (PCIe Gen4 x4)
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
FAN connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Power supply	+12V DC input power (AT/ATX mode)
Power Consumption	12V@2.59A (Intel® Core i7-12700HL 2.3GHz 45W CPU with 32GB 3200MHZ DDR4 memory, max. loading, EuP mode enabled)
Operating Temperature	0°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Diemensions	170mm x 170mm
Weight	GW: 900g / NW: 400g
Certification	CE/FCC Compliant

**Changing the CPU is not recommended, otherwise it will not boot and the BIOS need to be updated.

Packing List

1 x KINO-ADL-PS single board computer	1 x SATA with power cable kit (32801-000201-300-RS)
1 x I/O Shielding	1 x QIG

Ordering Informaiton

KINO-ADLPS-C-R11	Mini-ITX SBC with Intel® Alder Lake-PS/ Raptor Lake Celeron® 7305L Processor (socket), DDR4 SO-DIMM, Triple Display, SATA, Dual Intel 2.5GbE, USB3.2,M.2, RoHS
KINO-ADLPS-i3-R11	Mini-ITX SBC with Intel® Alder Lake-PS/ Raptor Lake Core™ i3-1215UL Processor (socket), DDR4 SO-DIMM, Triple Display, SATA, Dual Intel 2.5GbE, USB3.2,M.2, RoHS
KINO-ADLPS-i5-R11	Mini-ITX SBC with Intel® Alder Lake-PS/ Raptor Lake Core™ i5-1245UL Processor (socket), DDR4 SO-DIMM, Triple Display, SATA, Dual Intel 2.5GbE, USB3.2,M.2, RoHS
KINO-ADLPS-i7-R11	Mini-ITX SBC with Intel® Alder Lake-PS Core™ i7-1265UL Processor (socket), DDR4 SO-DIMM, Triple Display, SATA, Dual Intel 2.5GbE, USB3.2,M.2, RoHS

Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.0
32205-002700-200-RS	RS-232/422/485 cable, 200 mm, 2*5pin, p=2.0 mm
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board, RoHS
19100-000323-00-RS	High-performance LGA1700 cooler, 65W (78 x 78 x 45.8 mm)
19100-000319-00-RS	High-performanc 1 U LGA1700 cooler, 65W (95 x 90 x 27.45 mm)
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 Connetor converter board (For IEI Display Module)