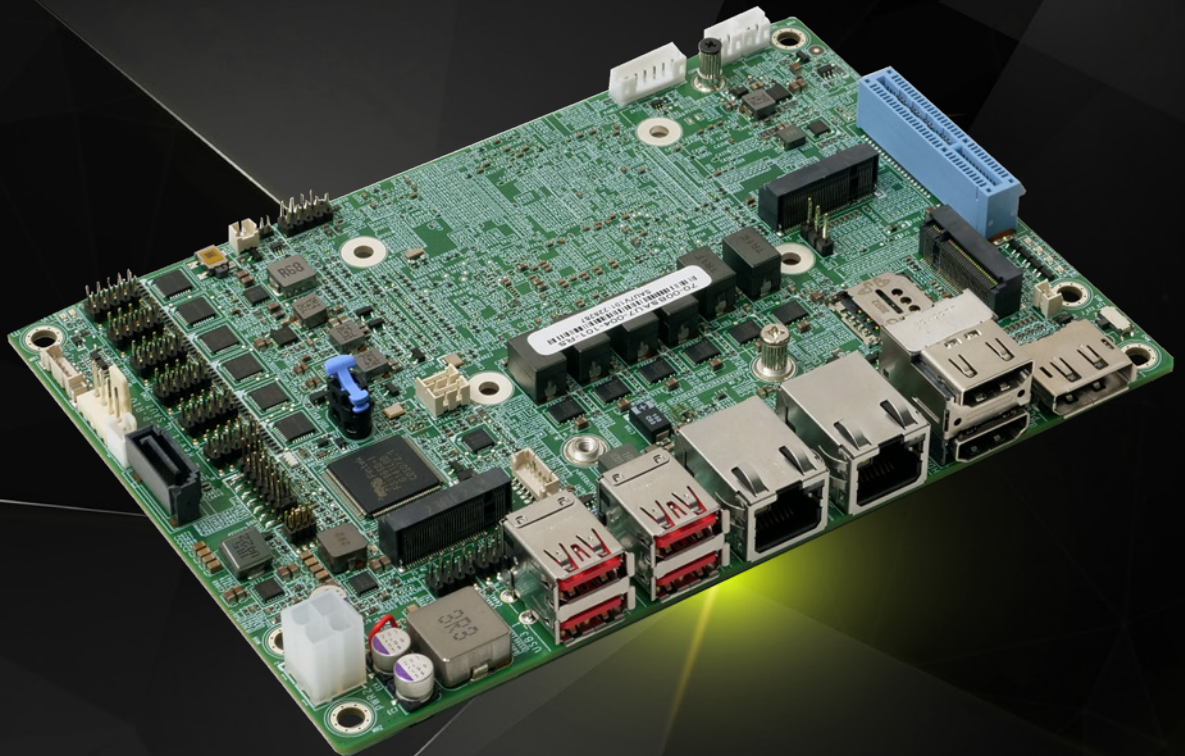


NANO-ADL-P

EPIC SBC supports Intel® Alder Lake-P Core™ i7/i5/i3 and Celeron® processor with 8GB LPDDR4x memory on board default

- Supports 12th Gen. Intel® mobile Alder Lake-P on board SoC
- On-board LPDDR4x 3200 MHz 8GB , up to 16GB
- Support 2 x 2.5GbE with i225-V
- Support quadruple independent display
- Support PCIe X4,M.2 B key and M.2 A key expansion

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



ICP Electronics
Australia Pty Ltd

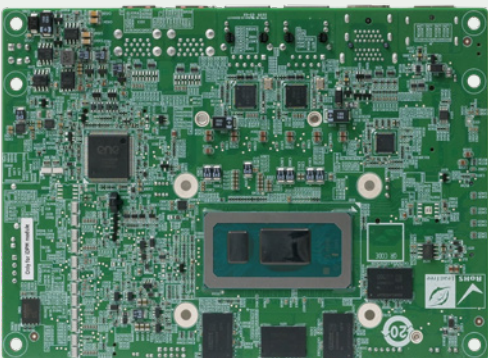
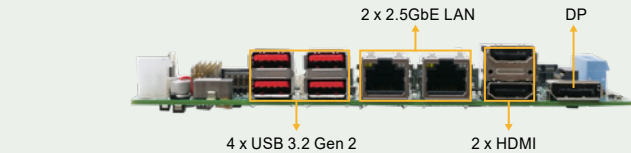
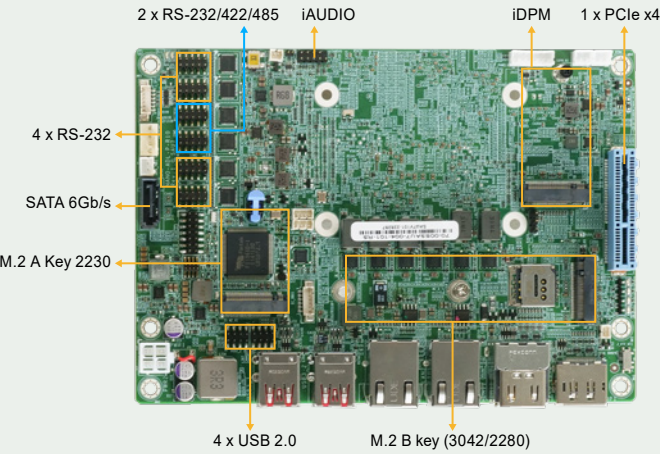
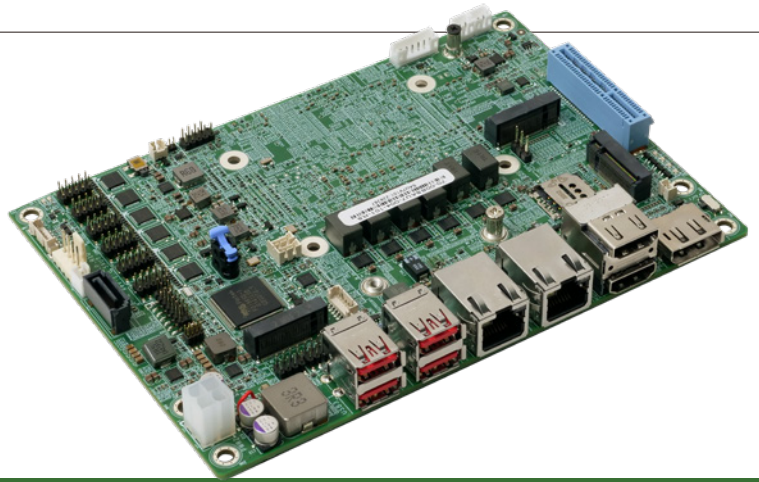
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NANO-ADL-P

EPIC SBC supports Intel® Alder Lake-P Core™ i7/i5/i3 and Celeron® processor with 8GB LPDDR4x memory on board default



Support 12th Intel® mobile AlderLake-Pon board SoC

Equipped with 12th Core™ i7/i5/i3 and Celeron® on-board processor.



Support Intel® I225V 2.5GbE Network Controller

Support RJ45 network interface via Intel® I225v 2.5GbE network controller to achieve up to 2.5GbE network transmission rate.



PCIe x4 Slot Available for Riser Card

One PCIe x4 slot (PCIe Gen3 x4 signal) is reserved on the edge of the motherboard, which can be used to connect a PCIe expansion card or a riser card designed by IEI.



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.

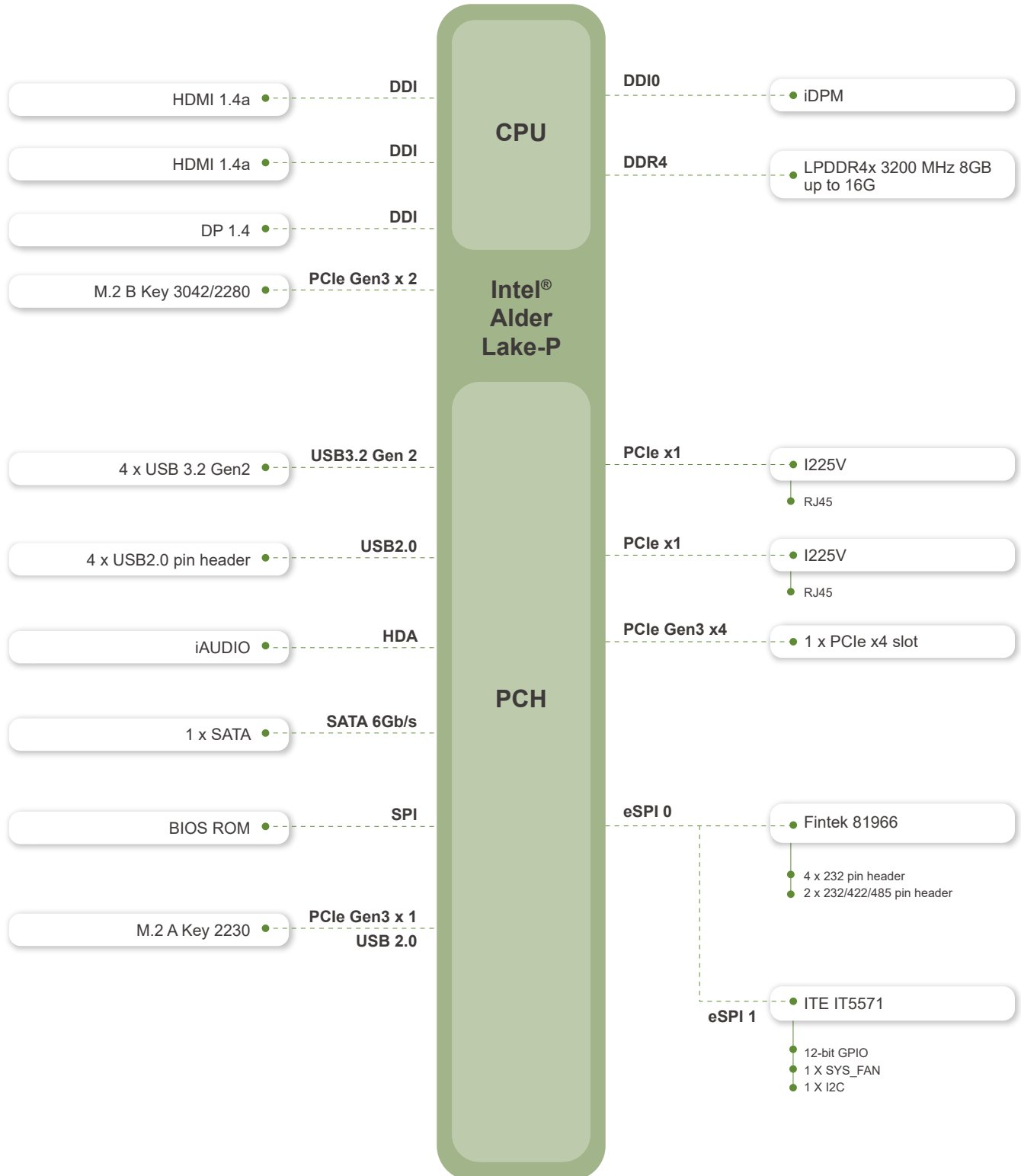
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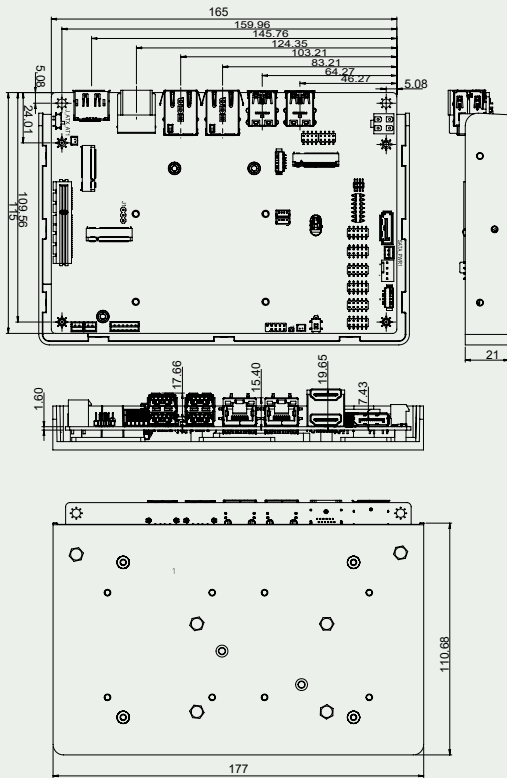
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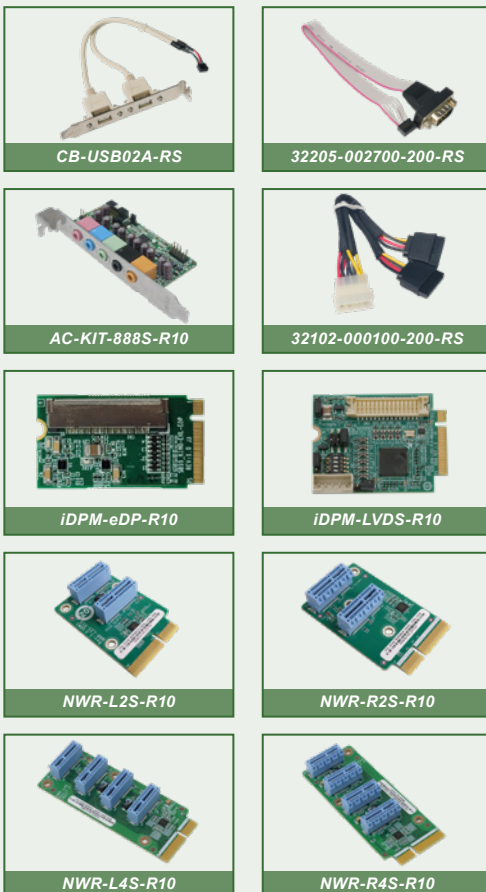
NANO-ADL-P Block Diagram



Dimensions



Optional accessories



Specifications

Model	NANO-ADL-P
SoC	12th Gen. Intel® mobile Alder Lake-P on board SoC
BIOS	AMI UEFI BIOS
Memory	On-board LPDDR4x 3200 MHz 8GB up to 16GB
Graphics Engine	Intel® UHD Graphics for Celeron® 7305 and Core i3-1215U Intel® Xe Graphics architecture for Core i5-1235U and Core i7-1255U
Display Output	Quadruple independent display 2 x HDMI 1.4a (up to 4096 x 2160@30Hz) 1 x DP 1.4a (up to 4096 x 2160 @60Hz) 1 x IDPM 3040 slot (only for IEI eDP/LVDS/VGA module)
Ethernet	2 x Intel® I225V 2.5GbE controller (Colay with I225-LM)
External I/O Interface	4 x USB 3.2 Gen 2 x1(10Gb/s)
Internal I/O Interface	1 x SATA 6Gb/s 4 x USB 2.0 (2x4 pin, P=2.0) 2 x RS-232/422/485 (2x5 pin, P=2.0) 4 x RS-232 (2x5 pin, P=2.0)
SMBus/I2C	1 x I ² C (1x4 pin) 1 x SMBUS (1x4 pin)
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) Power Button (1x2 pin) Reset Button (1x2 pin)
Expansion	1 x M.2 A Key for Wi-Fi & BT 2230 (PCIe Gen3 x 1 & USB 2.0) 1 x M.2 B Key W/ SIM Header (PCIe x2) 3042/2280 1 x PCIe x4 slot (PCIe x4 signal, x4 &x2+x2&x2+x1+x1)
Digital I/O	1 x 12-bit Digital I/O (2x7 pin)
TPM	Intel® PTT
FAN connector	1 x CPU Fan Connect (1x4 pin)
Power supply	12V DC power supply Support AT/ATX mode
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	12V@4.62A (12 th Gen Intel® Core™ i7-1265UE CPU with 8 GB 3200 MHz LPDDR4x memory, max. loading, EuP mode enabled)
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~ 95%,non-condensing
Diemension	115 mm x 165 mm
Weight	GW:900 g / NW:400 g
Certification	CE/FCC Compliant

Packing List

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

Ordering Information

NANO-ADL-P-CC-R10	EPIC SBC supports Intel® Alder Lake-P Celeron® 7305 processor with 8GB LPDDR4x memory on board default, with Dual HDMI,DP,iDPM,M.2 A key, M.2 B key, USB 3.2, SATA 6Gb/s, COM, IAUDIO,PCIe x4 for riser card and RoHS
NANO-ADL-P-i3C-R10	EPIC SBC supports Intel® Alder Lake-P Core™ i3-1215U processor with 8GB LPDDR4x memory on board default, with Dual HDMI,DP,iDPM,M.2 A key, M.2 B key, USB 3.2, SATA 6Gb/s, COM, IAUDIO,PCIe x4 for riser card and RoHS
NANO-ADL-P-i5C-R10	EPIC SBC supports Intel® Alder Lake-P Core™ i5-1235U processor with 8GB LPDDR4x memory on board default, with Dual HDMI,DP,iDPM,M.2 A key, M.2 B key, USB 3.2, SATA 6Gb/s, COM, IAUDIO,PCIe x4 for riser card and RoHS
NANO-ADL-P-i7C-R10	EPIC SBC supports Intel® Alder Lake-P Core™ i7-1255U processor with 8GB LPDDR4x memory on board default, with Dual HDMI,DP,iDPM,M.2 A key, M.2 B key, USB 3.2, SATA 6Gb/s, COM, IAUDIO,PCIe x4 for riser card and RoHS

Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.0
32205-002700-200-RS	RS-232 cable, 200 mm, p=2.0 mm
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board,RoHS
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
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)
NWR2-L2S-N-R10	PCIe x4 to two PCIe x2 riser card for NANO on the left side
NWR2-R2S-N-R10	PCIe x4 to two PCIe x2 riser card for NANO on the right side
NWR-L4S-N-R10	PCIe x4 to four PCIe x1 riser card for NANO on the left side
NWR-R4S-N-R10	PCIe x4 to four PCIe x1 riser card for NANO on the right side