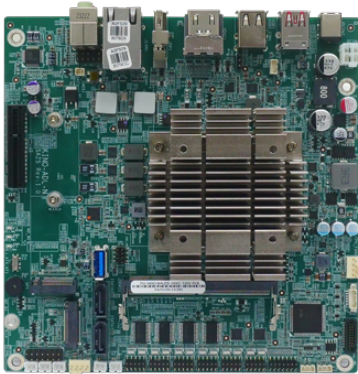


KINO-ADL-N

Mini-ITX SBC with Intel® Alder Lake-N SoC Processor, DDR5 SO-DIMM, 12~28V DC input, Triple Display, Intel 2.5GbE, M.2, RoHS



Features

- » Mini-ITX SBC support Intel® Alder Lake-N SoC Processor
- » Support one 4800 MHz DDR5 SO-DIMM
- » Triple independent display via dual HDMI, DP
- » Support Dual Intel® I226V 2.5GbE controller
- » Support PCIe Gen3 x4, M.2 M key, and M.2 A key expansion

Specifications

| | |
|-----------------------------|--|
| Form Factor | |
| Form Factor | Mini-ITX SBC |
| System | |
| CPU | <ul style="list-style-type: none"> » Onboard Intel® Atom™ / Pentium® / Celeron® processor (Alder Lake N platform) » Intel® Alder Lake-N N97 SoC Processor (up to 2.9GHz, quad-core, TDP=12W) » Intel® Alder Lake-N N200 SoC Processor (up to 3.2GHz, quad-core, TDP=6W) » Onboard Intel® Atom™ x7000 series / Pentium® / Celeron® processor (Amston Lake platform) » Intel® Amston Lake x7835RE SoC Processor (up to 3.0GHz, 8-core, TDP=12W) » Intel® Amston Lake x7405C SoC Processor (up to 2.7GHz, quad-core, TDP=12W) |
| Memory | 1 x 262-pin 4800 MHz DDR5 SO-DIMM (Support IBCECC) |
| Memory Max. | up to 16G |
| 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: 400g |
| Storage | |
| Storage | 2 x SATA : 6Gb/s |
| I/O Interface | |
| Display Output | 1 x Display Port : 1.4 4K@60 2 x HDMI™ : 1.4 4K@30 |
| Ethernet | 2 x LAN - LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller |
| Audio | HD Audio : Realtek ALC888S HD Audio codec 1 x Audio jacks (line-out/MIC-in) on rear IO 1 x Front audio (2x5 pin) |
| I/O Interface | 1 x DIO : 12-bit digital I/O (2x7 pin) 2 x External USB 2.0 2 x External USB 3.2 Gen2x1 : 10Gb/s 1 x I²C : 1x4 pin 4 x Internal RS-232 : 2x5 pin, P=2.0 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0 2 x Internal USB 2.0 : 2x4 pin, P=2.0 |

| | |
|-----------------------|---|
| | 1 x Internal USB 3.2 Gen1x1 : TypeA, 180° (Only embedded CPU) |
| Expansion | 1 x PCIe x4 : PCIe Gen3 x1 signal |
| Other Features | |
| TPM | 2x10 pin |
| Power | |
| Power Consumption | 12V@4.304A, 19V@2.744A, 24V@2.241A, 28V@1.943A, (Intel® N97 @2.00GHz CPU with Innodisk M550-AGS2NCVP 4800 16GB memory, max. loading, EuP mode enabled) |
| Power Supply | Input voltage 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 A Key 2230 for WIFI & BT (PCIe Gen3 x1 & USB 2.0) |
| | 1 x M.2 M key 2242/2280 (PCIe Gen3 x1) |

Ordering Information

| | |
|-------------------|---|
| KINO-ADL-N97-R10 | Mini-ITX SBC with Intel® Alder Lake-N N97 SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display, dual Intel 2.5GbE, USB 3.2, M.2 ,SATA, RoHS |
| KINO-ADL-N200-R10 | Mini-ITX SBC with Intel® Alder Lake-N N200 SoC Processor,DDR5 SO-DIMM, 12~28V DC input, Triple Display, dual Intel 2.5GbE, USB 3.2, M.2 ,SATA, RoHS |

Packing List

| | |
|--------------------------------------|-------------------|
| 1 x KINO-ADL-N single board computer | 1 x I/O Shielding |
| 2 x SATA cable | 1 x QIG |