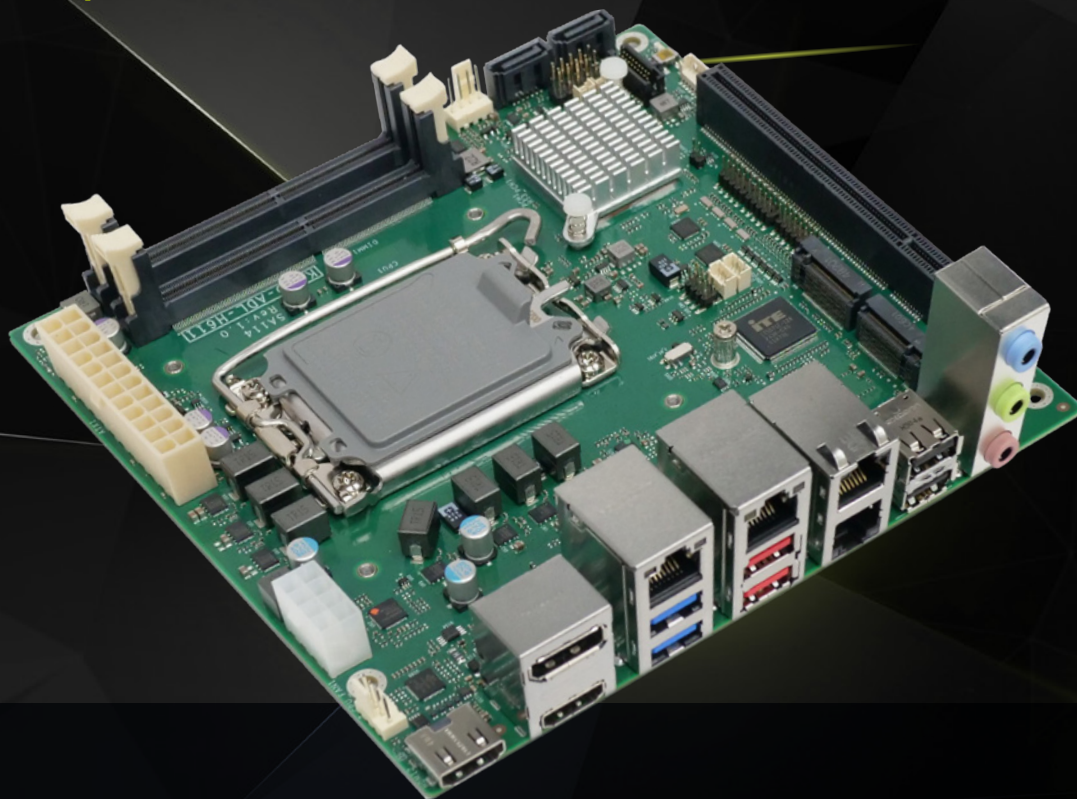


KINO-ADL-H611

mini-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple independent displays, quad LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS

- Support dual-channel 3200MHz DDR4 SO-DIMM
- Support DisplayPort and HDMI
- Support quad LAN
- Support PCIe x16, M.2 A Key and M.2 M Key

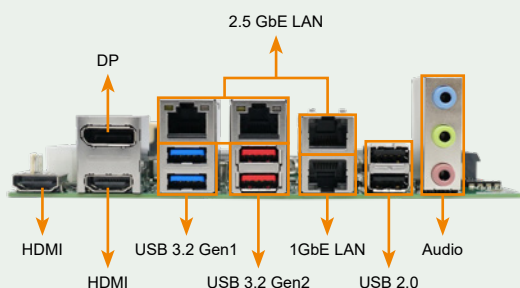
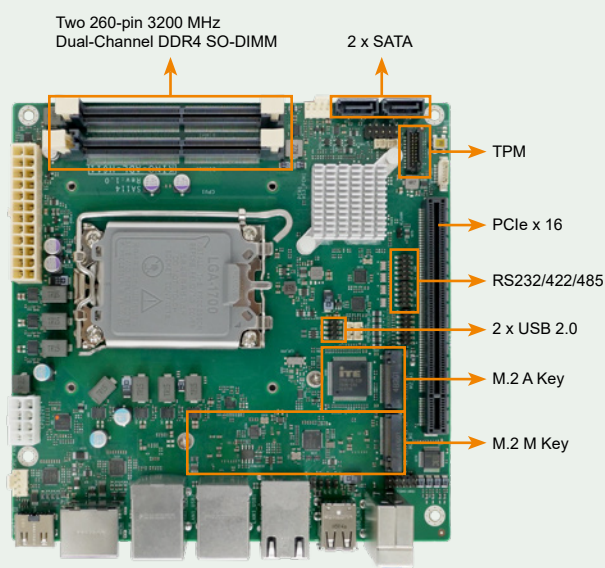
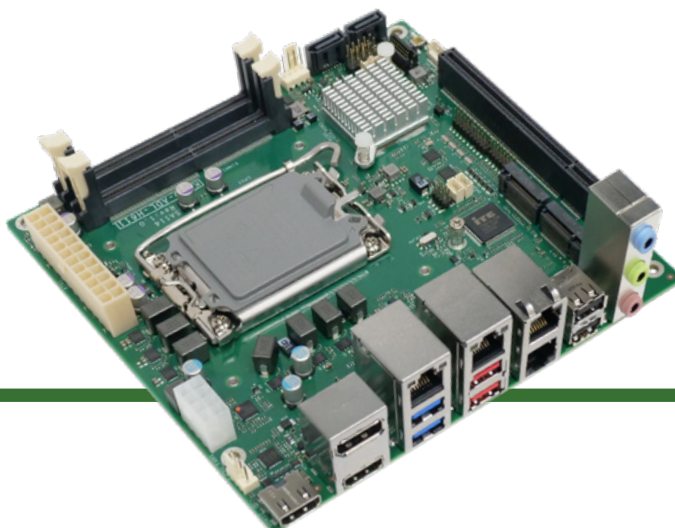
17*17 mini ITX form factor
With multiple expansion function



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KINO-ADL-H611

mini-ITX SBC supports supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/ i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple independent displays, quad LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



Support Intel® Alder Lake-N socket processor

Equipped with Onboard Intel® Atom™ x6000 series / Pentium® / Celeron® processor (Alder Lake N platform), Onboard Intel® Atom™ x7000 series / Pentium® / Celeron® processor (Amston Lake platform)



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

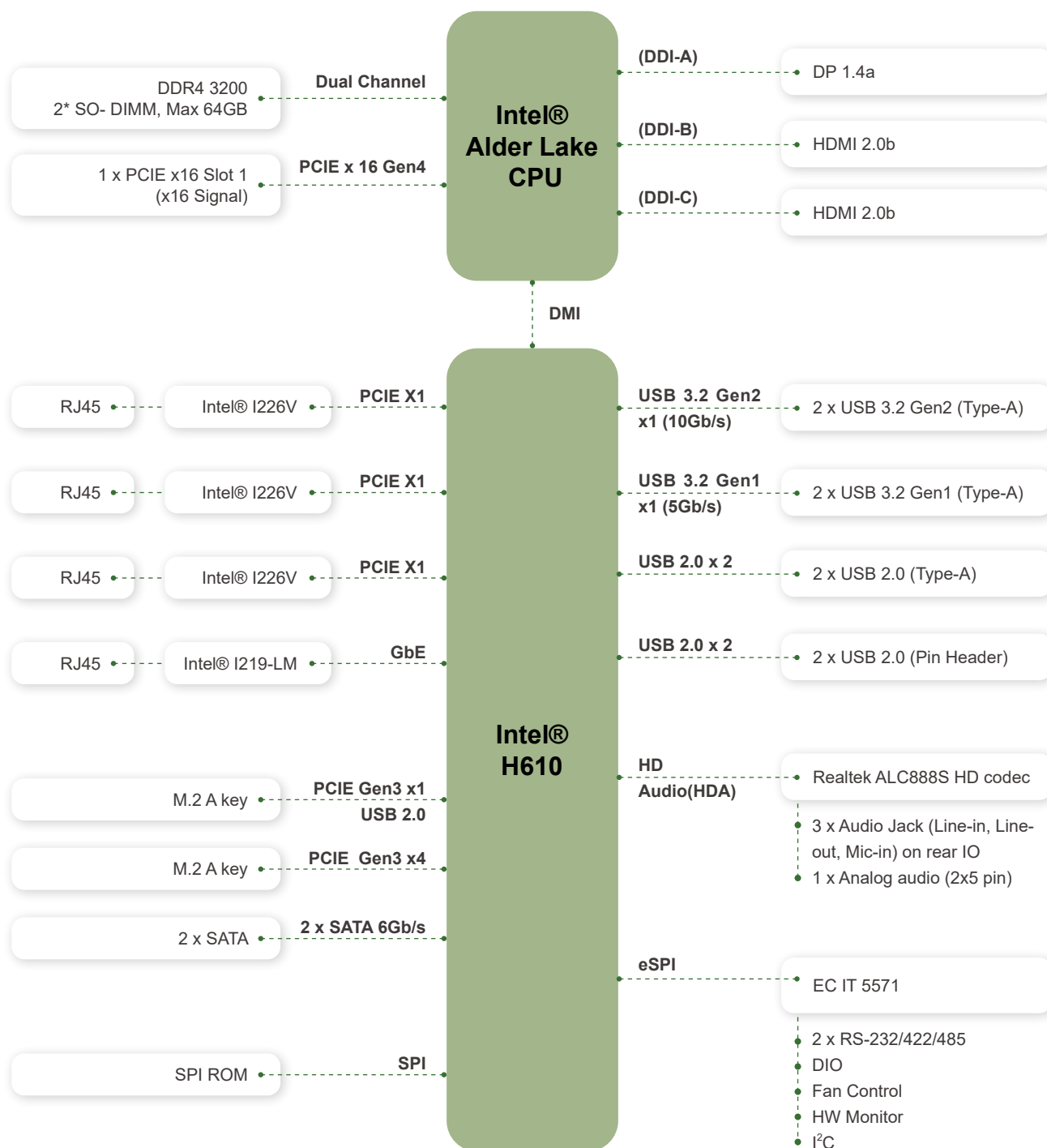
One PCIe x4 slot can connect a PCIe expansion card. M.2 A key for Bluetooth and Wi-Fi modules, M.2 M key for NVME storage



Abundant USB and COM interfaces

It is equipped with two USB 3.2 Gen 2 (10Gb/s) ports, four USB 2.0 ports on the rear panel. Additionally, two RS-232/422/485 and four RS-232 ports are supported via internal connectors.

Block Diagram



Dimensions



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Specifications

Model	KINO-ADL-H611
CPU	LGA1700 socket supports 12th/13th/14th generation Alder Lake-S/Raptor Lake-S Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor (up to 65W TDP CPU)
Chipset	Intel® H610/H610E
BIOS	AMI UEFI BIOS
Memory	Two 260-pin 3200 MHz Dual-Channel DDR4 SO-DIMM, supported up to 64GB
Graphics Engine	Intel® UHD Graphics
Display Output	Triple independent display 1 x DP 1.4a(up to 4K @60Hz) 1 x HDMI 2.0b(up to 4K @60Hz) 1 x HDMI 2.0b(up to 4K @60Hz)
Ethernet	LAN1: Intel® I226-V 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller LAN3: Intel® I226-V 2.5GbE controller LAN4: Intel® I219-V 1GbE controller
External I/O Interface	2 x USB 3.2 Gen2 (Type-A) (10Gb/s) 2 x USB 3.2 Gen1 (Type-A) (5Gb/s) 2 x USB 2.0 (Type-A)
Internal I/O Interface	2 x SATA 6Gb/s 2 x USB 2.0 (2x4 pin, P=2.0) 2 x RS-232/422/485 (2x5 pin, P=2.0)
I²C/SMBUS	1 x I²C/SMBUS(1x4 pin,P=1.25)
Audio	Realtek ALC888S HD codec 3 x Audio Jack (Line-in, Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
Front Panel	1 x Front Panel (2 x 5 pin,P=2.54, Power LED, HDD LED, Speaker, Power Button, Reset Button)
LAN LED	2 x LAN LED (1x2 pin)
Expansion	1 x PCIe x16 (Slot1) with x16 Signal Gen4 1 x M.2 M key (2280,PCIe Gen3 X 4) 1 x M.2 A key(2230,PCIe Gen3 x1 &USB 2.0) for wifi/BT
Digital I/O	1 x 12-bit digital I/O (2x7 pin,P=2.0)
TPM	PTT function supported
FAN connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Power supply	Support AT/ATX mode ErP/EuP Compliant
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	TBD
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Diemension	170mm x 170mm
Weight	GW:900g / NW:450g
Certification	CE/FCC Compliant

Packing List

1 x KINO-ADL-H611 single board computer	1 x SATA cable
1 x I/O Shielding	1 x QIG

Ordering Informaiton

KINO-ADL-H611-R10	Mini-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/ i7/ i5/i3, Pentium® and Celeron® processor, DDR4, Triple independent displays, quad LAN, USB 3.2, SATA 6Gb/s and RoHS
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Optional Accessories

AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board,RoHS
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
19100-000323-00-RS	High-performance LGA1700 cooler, 65W (72 x 70 x 25.5 mm)
19100-000319-00-RS	High-performanc 1 U LGA1700 cooler, 65W (95 x 90 x 27.45 mm)
19100-000333-00-RS	High-performance LGA1700 cooler, 80W, (72 x 48.5 x 73.5 mm)

Support Intel® Alder Lake-S/ Raptor Lake-S Processor

Equipped with 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor (up to 65W TDP CPU)

Support Intel® I226-V 2.5GbE and I219-V 1GbE controller Network Controller

Four Gigabit RJ45 network ports are provided via Intel® I226V 2.5GbE and I219-V 1GbE network controller to achieve network transmission rate.

Abundant Expansion Slots

The KINO-ADL-H611 provides PCIe x16 (Gen 4) for expansion, M.2 A key for Bluetooth and Wi-Fi modules, M.2 M key for NVME storage.

Abundant USB and COM interfaces

It is equipped with two USB 3.2 Gen 2 (10Gb/s) ports, two USB 3.2 Gen 1 (5Gb/s) ports, four USB 2.0 ports. Additionally, two RS-232/422/485 are supported via internal connectors.

Optional Accessories



CB-USB02A-RS

32205-002700-200-RS