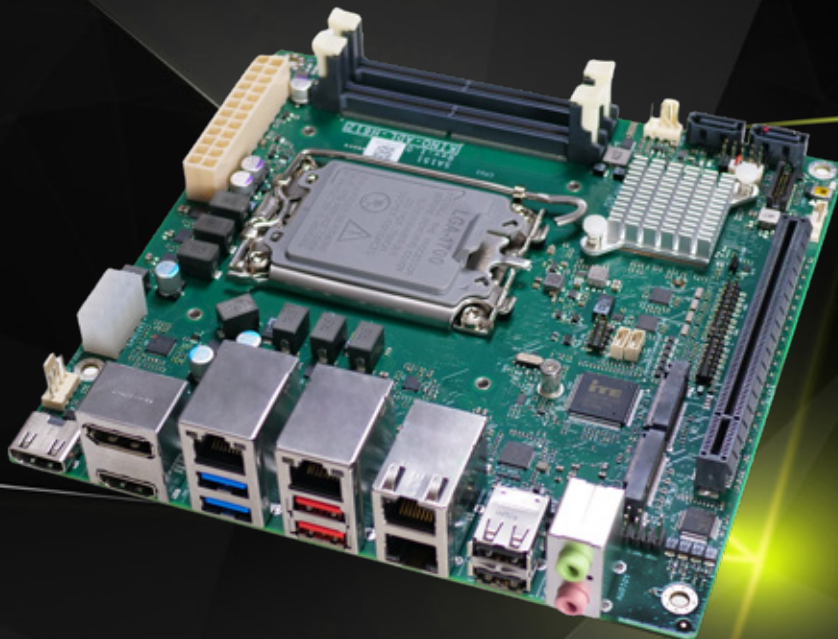


KINO-BTL-H611

mini-ITX SBC supports LGA1700 socket supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S) up to 65W TDP

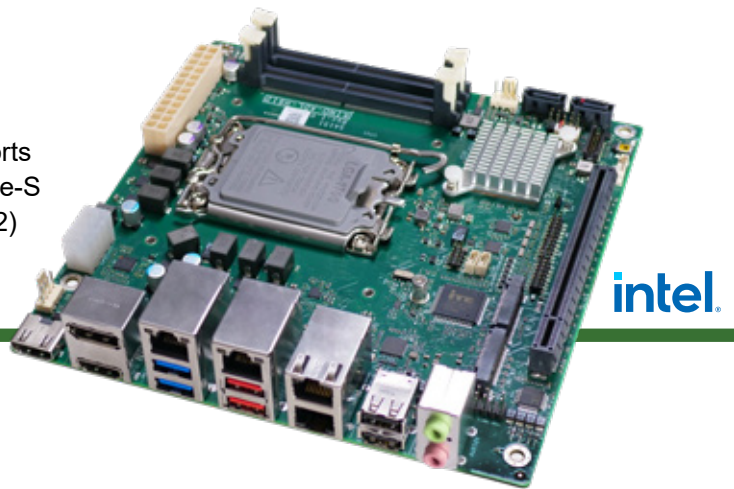
- Dual-channel DDR5 5600 SO-DIMM for high-bandwidth memory performance
- Triple independent display via DisplayPort and HDMI outputs
- Quad Intel® LAN for high-speed industrial networking
- Flexible expansion with PCIe Gen4 x16 and M.2 A-Key / M-Key slots



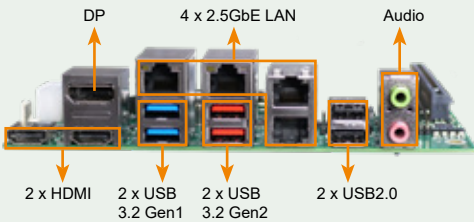
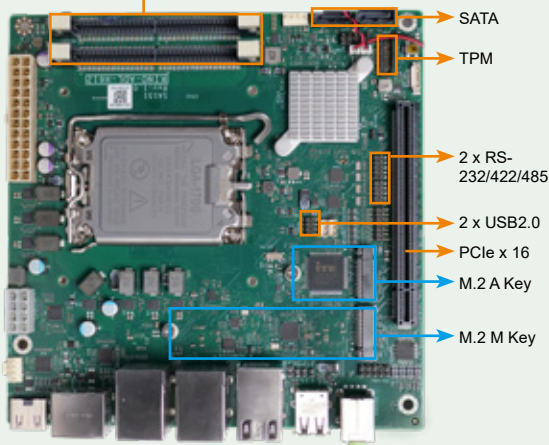
www.ieiworld.com

KINO-BTL-H611

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2 x SO-DIMM DDR5 up to 96GB



High-performance LGA1700 Mini-ITX platform for industrial edge computing

Supports 12th/13th/14th Gen Intel® Core™ processors and Bartlett Lake S (Series 2) up to 65W TDP, delivering strong compute density in a 170×170 mm footprint.



Quad Intel® LAN for high-performance networking

Features four Intel® Ethernet controllers, including three 2.5GbE (I226-V) and one 1GbE (I219-LM), enabling high-bandwidth networking for industrial gateways, edge servers, and network appliances.



Triple independent display for multi-screen applications

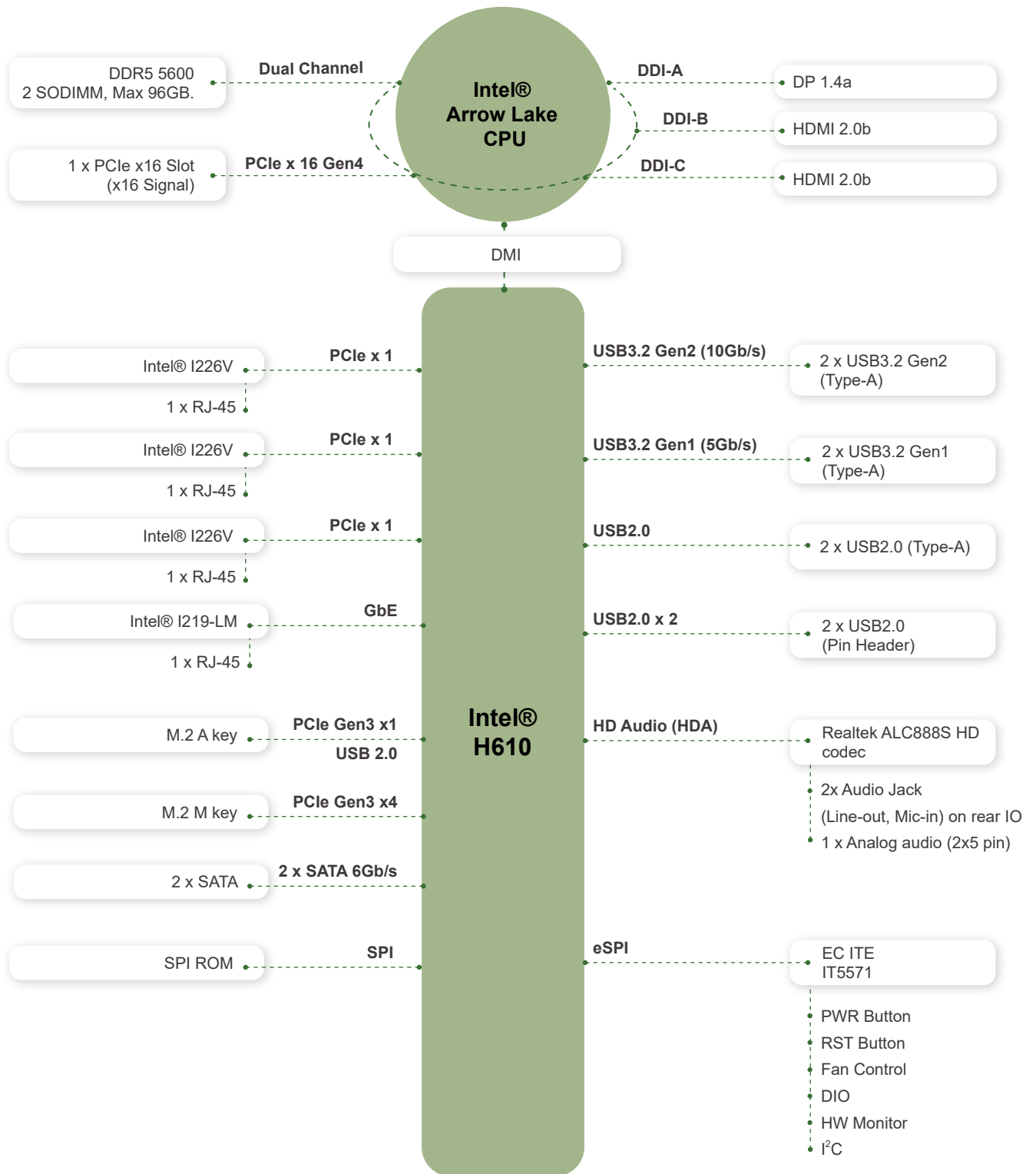
Supports DP 1.4a and dual HDMI 2.0b outputs, enabling three independent displays with up to 4K resolution, ideal for monitoring, control systems, and digital signage.



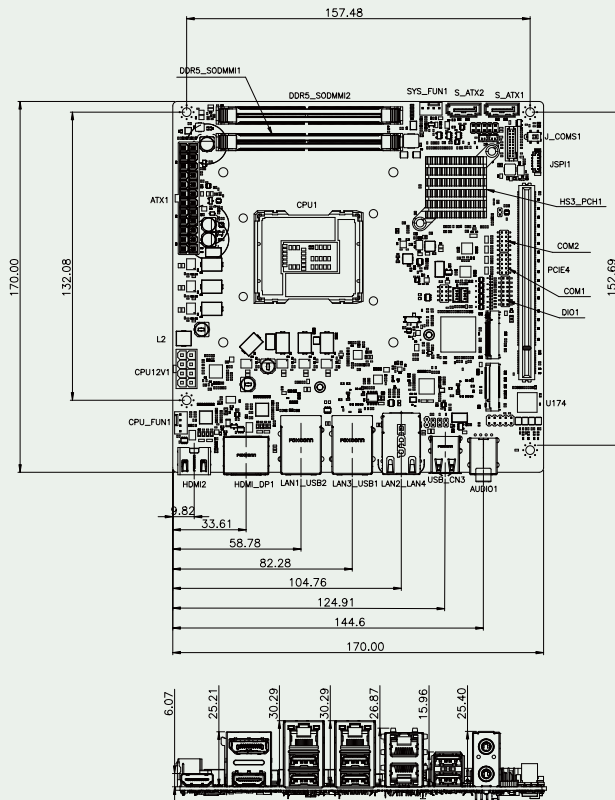
Industrial-grade reliability and system security

Integrated TPM 2.0, watchdog timer, and AT/ATX power support, ensuring secure and stable 24/7 operation in industrial environments.

Block Diagram



Dimensions



Optional Accessories



Specifications

Model	KINO-BTL-H611
CPU	LGA1700 socket supports 12th/13th/14th Gen Intel® Core™ processors (Alder Lake-S / Raptor Lake-S) and Intel® Core™ Processors (Series 2) (Bartlett Lake-S) up to 65W TDP
Chipset	Intel® H610/H610E
BIOS	AMI UEFI BIOS
Memory	2 x 262-pin DDR5 5600 MHz SO-DIMM, dual-channel, supports up to 96GB
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-LM 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 2 x Audio Jack (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	1 x TPM2.0 (2 x 10pin) & 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	3.3V@1.81AA, 5V@8.13A, 5Vsb@0.17A, 12V@5.73A (Intel® Core i5-14500 with 48 GB 5600 MHz DDR5 memory, EuP mode disabled)
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Dimensions	170mm x 170mm
Weight	GW:1200g / NW:700g
Certification	CE/FCC Compliant

Packing List

1 x KINO-BTL-H611 single board computer	1 x SATA cable
1 x I/O Shielding (45014-0104C0-00-HF)	1 x QIG

Ordering Informaiton

KINO-BTL-H611-R10	Mini-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/ i7/ i5/i3, Pentium® and Celeron® processor and Intel® Core Processors (Series 2) (Bartlett Lake S) , DDR5, 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)