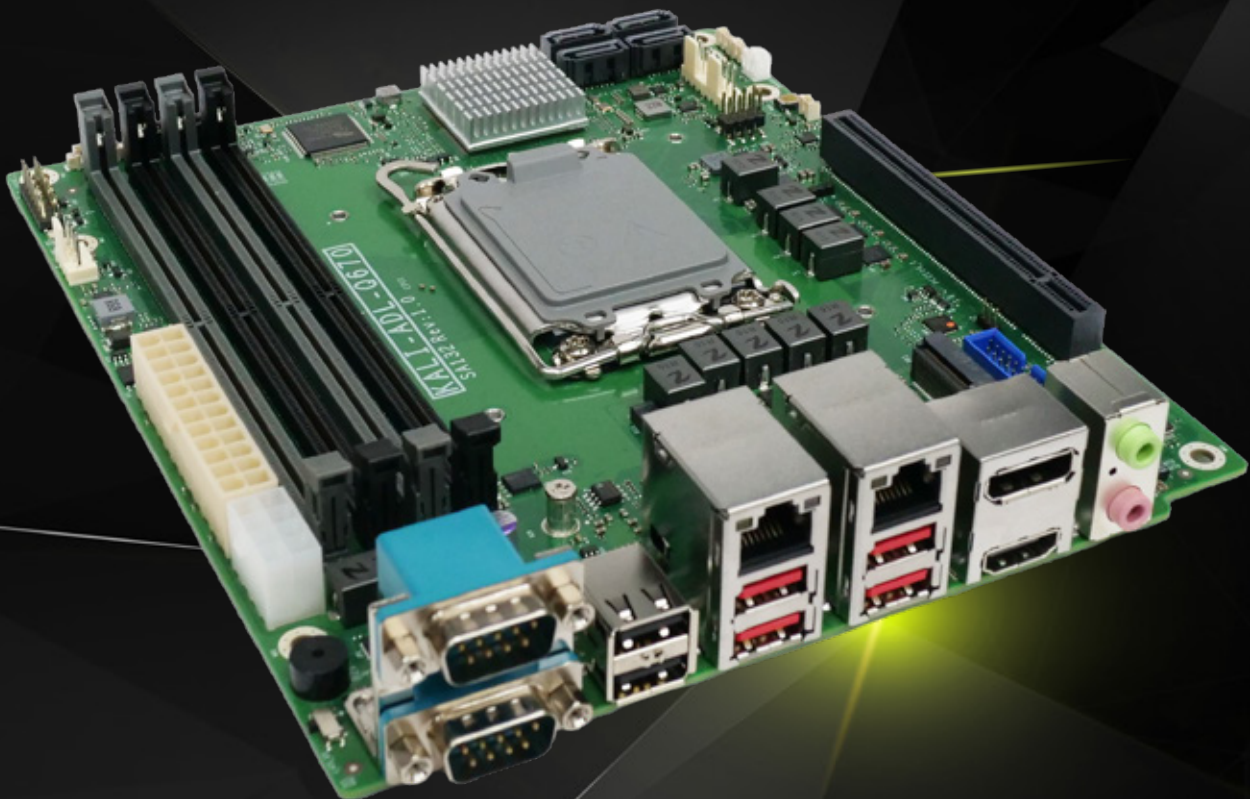


KALI-ADL-Q670

Extended-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor

- Extended-ITX SBC
- LGA1700 Intel® 12th/13th/14th Generation Core i9/i7/i5/i3, Pentium and Celeron processor(125W)
- Support DisplayPort and HDMI
- Support PCIe x16 Gen4 and M.2 M key expansion



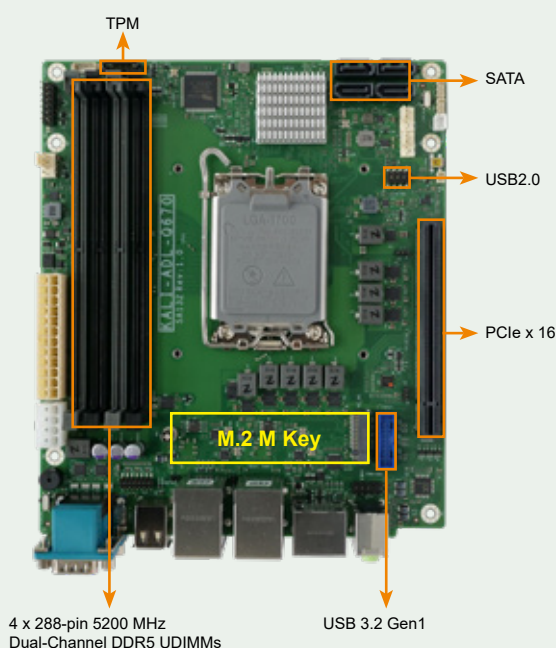
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KALI-ADL-Q670

Extended-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR5, Dual displays, dual 2.5GbE LAN, USB 3.2, SATA 6Gb/s and RoHS



intel



Support 12th/13th/14th Gen Intel® Core™ CPU

Support LGA1700 socket 12th/13th/14th generation Alder Lake-S/Raptor Lake-S Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor (up to 125W TDP CPU)



Support Intel® I226V 2.5GbE Controller

Support two RJ45 network interface via Intel® I226V 2.5GbE network controller, achieving up to 2.5GbE network transmission



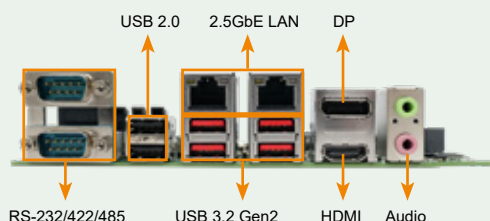
Higher Maximum Memory Capacity

Support four 288-pin 5200 MHz Dual-Channel DDR5 UDIMMs, up to 192GB. Four memory slots in a small form factor help balance space constraints with performance requirements.

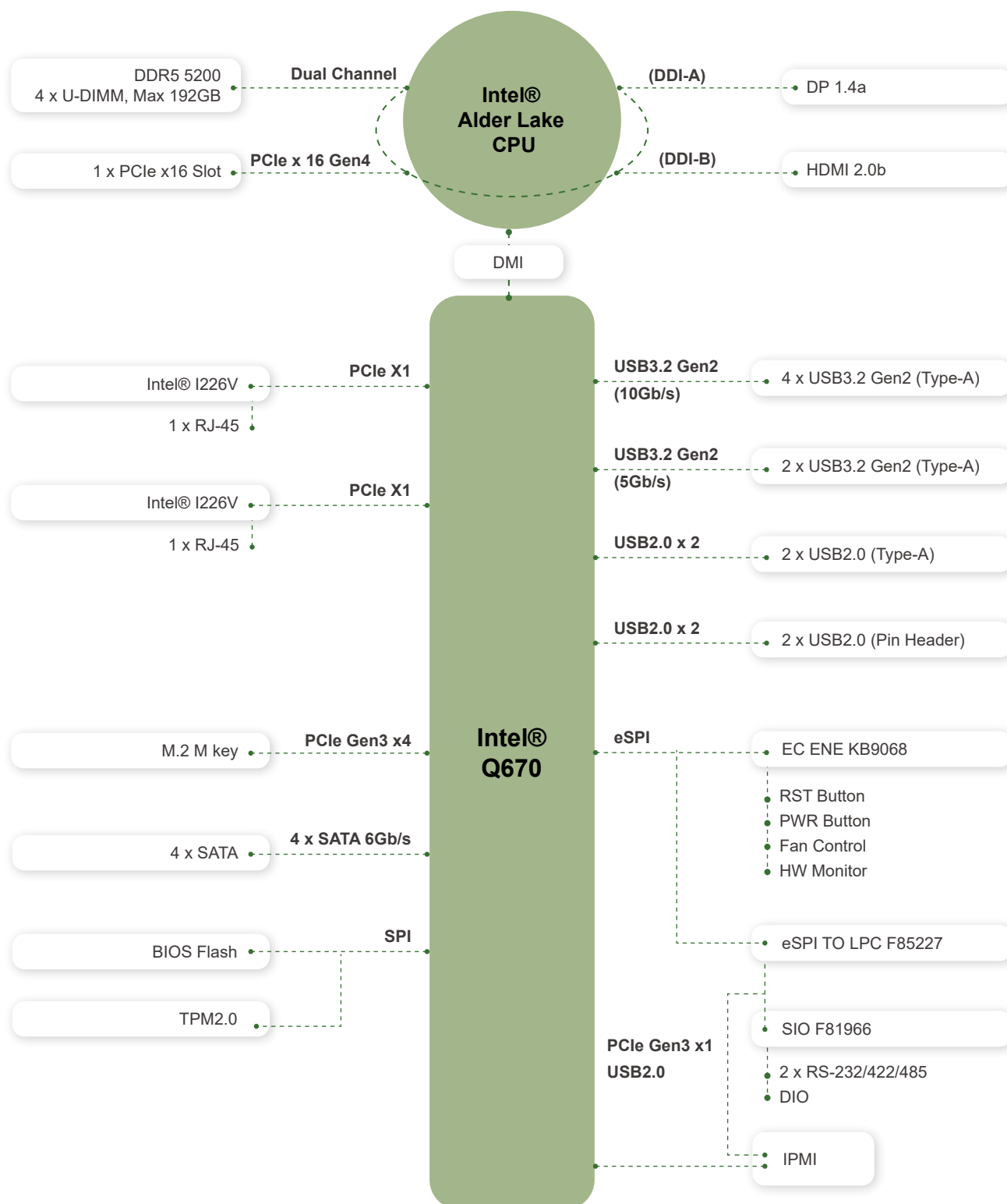


Abundant USB and COM interfaces

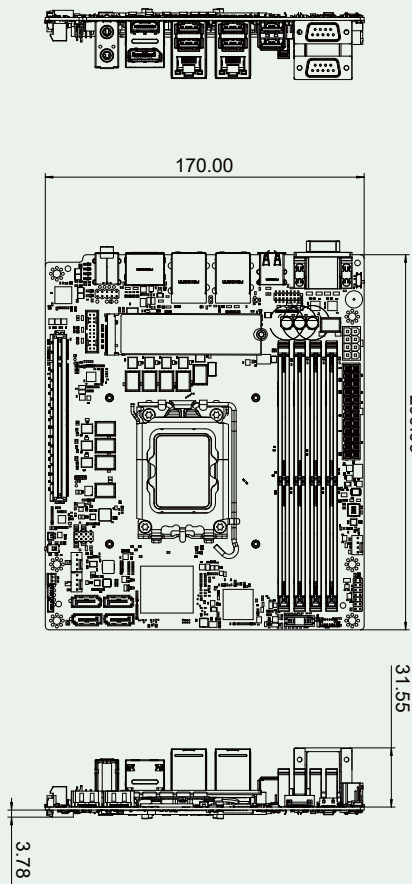
It is equipped with four USB 3.2 Gen 2 (10Gb/s) ports, two USB 3.2 Gen1 (5Gb/s) four USB 2.0 ports. Additionally, two RS-232/422/485 are supported .



Block Diagram



Dimensions



Optional Accessories



Specifications

Model	KALI-ADL-Q670
CPU	LGA1700 socket supports 12th/13th/14th generation Intel® Core™ i9/i7/i5/i3/ Pentium®/ Celeron® Processor (up to 125W TDP CPU)
Chipset	Intel® Q670
BIOS	AMI UEFI BIOS
Memory	Four 288-pin 5200 MHz Dual-Channel DDR5 UDIMMs supported up to 192GB
Graphics Engine	Intel® UHD Graphics
Display Output	Double independent display 1 x DP 1.4a(up to 4K @60Hz) 1 x HDMI 2.0b(up to 4K @60Hz)
Ethernet	LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller
Super I/O	Fintek F81966D
Embedded Controller	ENEKB9068
External I/O Interface	4 x USB 3.2 Gen2 (Type-A) (10Gb/s) 2 x USB 2.0 (Type-A) 2 x RS-232/422/485 (RS-485 support AFC)
Internal I/O Interface	4 x SATA 6G/s 2 x USB 3.2 Gen1 (2x10pin, P=2.00) (5Gb/s) 2 x USB 2.0 (2x4pin, P=2.54)
SMBus	1 x SMBus (1x4 pin)
I2C	1 x I2C (1x4 pin)
Audio	Realtek ALC888S HD codec 1 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin)
Front Panel	1 x Front Panel (2x7 pin, 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 PCIe X4 gen3 2280
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
TPM	PTT function supported & dTPM connector
FAN connector	1 x CPU fan connector (1x4 pin) 2 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@0.98A, 5V@4.9A, 12V@5.75A, 5VSB@0.36A (Intel® Core™ i9-12900K CPU with 48 GB 5600 MHz DDR5 memory, EuP mode disabled)
Operating Temperature	-10°C ~ 65°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Dimensions	200mm x 170mm
Weight	GW:1200g / NW:700g

Packing List

1 x KINO-ADL-H610 single board computer	1 x SATA cable (PN: 32801-000100-300-RS)
1 x I/O Shielding (PN: 45014-0089C0-00-HF)	1 x QIG

Ordering Informaiton

KALI-ADL-Q670-R10	Extended-ITX SBC supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR5, Dual displays, dual 2.5GbE LAN, USB 3.2, SATA 6Gb/s and RoHS
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Optional Accessories

CB-USB02-RS	Dual port USB 2.0 cable with bracket, 300mm, P=2.54
19800-010500-200-RS	USB 3.0 cable with bracket, 450mm, P=2.00
AC-KIT-888S-R10	Realtek ALC888S 7.1 Channel HD Audio peripheral board, RoHS
19100-000319-00-RS	High-performanc 1 U LGA1700 cooler, 65W (95 x 90 x 27.45 mm)
19100-000323-00-RS	High-performance LGA1700 cooler, 65W (78 x 78 x 45.8 mm)
19100-000333-00-RS	High-performance LGA1700 cooler, 80W (72 x 48.5 x 73.5 mm)
19100-000326-00-RS	High-performance LGA1700 cooler, 125W (87.8 x 66.5 x 75 mm)