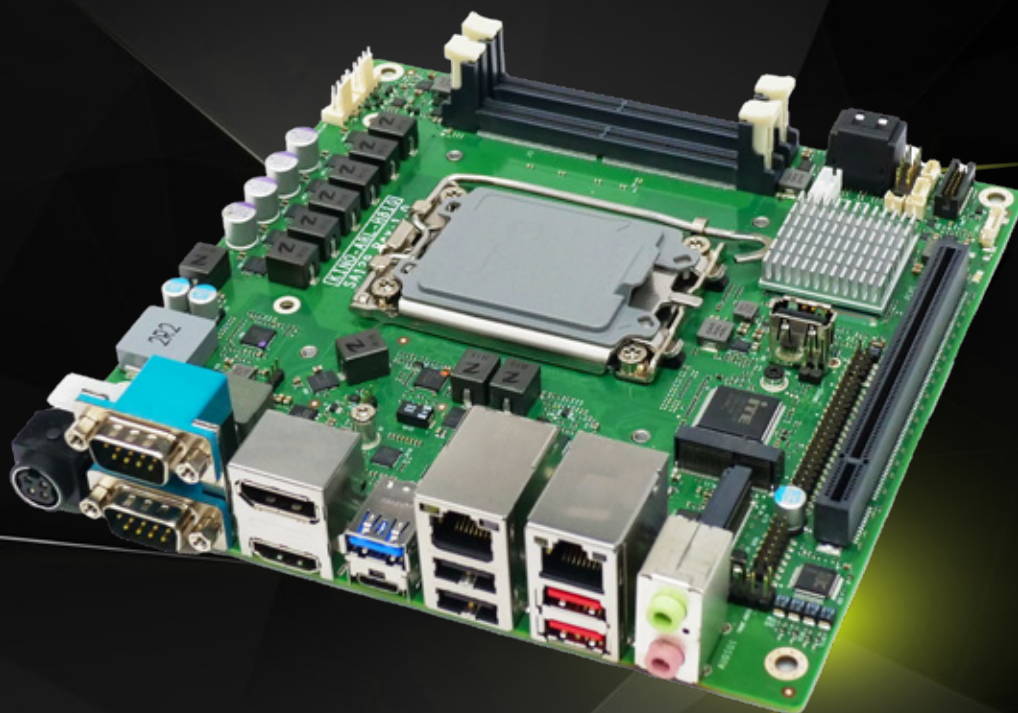


KINO-ARL-H810

Mini-ITX SBC with high-Performance Intel® Core™ Ultra Processors (Series 2),
DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE, USB3.2, M.2, RoHS

17*17 mini ITX form factor
With multiple expansion function



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KINO-ARL-H810

Mini-ITX SBC with high-Performance Intel® Core™ Ultra Processors (Series 2), DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE, USB3.2, M.2, RoHS



Two 262-pin 5600 MHz
Dual-Channel DDR5 SO-DIMM

2 x SATA

TPM

PCIe x16

USB 3.2 Gen1

2 x USB 2.0

M.2 E Key

4 x RS232

M.2 M Key

2 x RS-232/422/485

USB 3.2 Gen1

Audio

2 x 2.5GbE LAN

DP

HDMI

USB4

2 x USB 3.2 Gen2

2 x USB 3.2 Gen1

12V DC Input



Support High-Performance Intel® Core™ Ultra CPU

LGA1851 socket supports High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)



Support Intel® 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

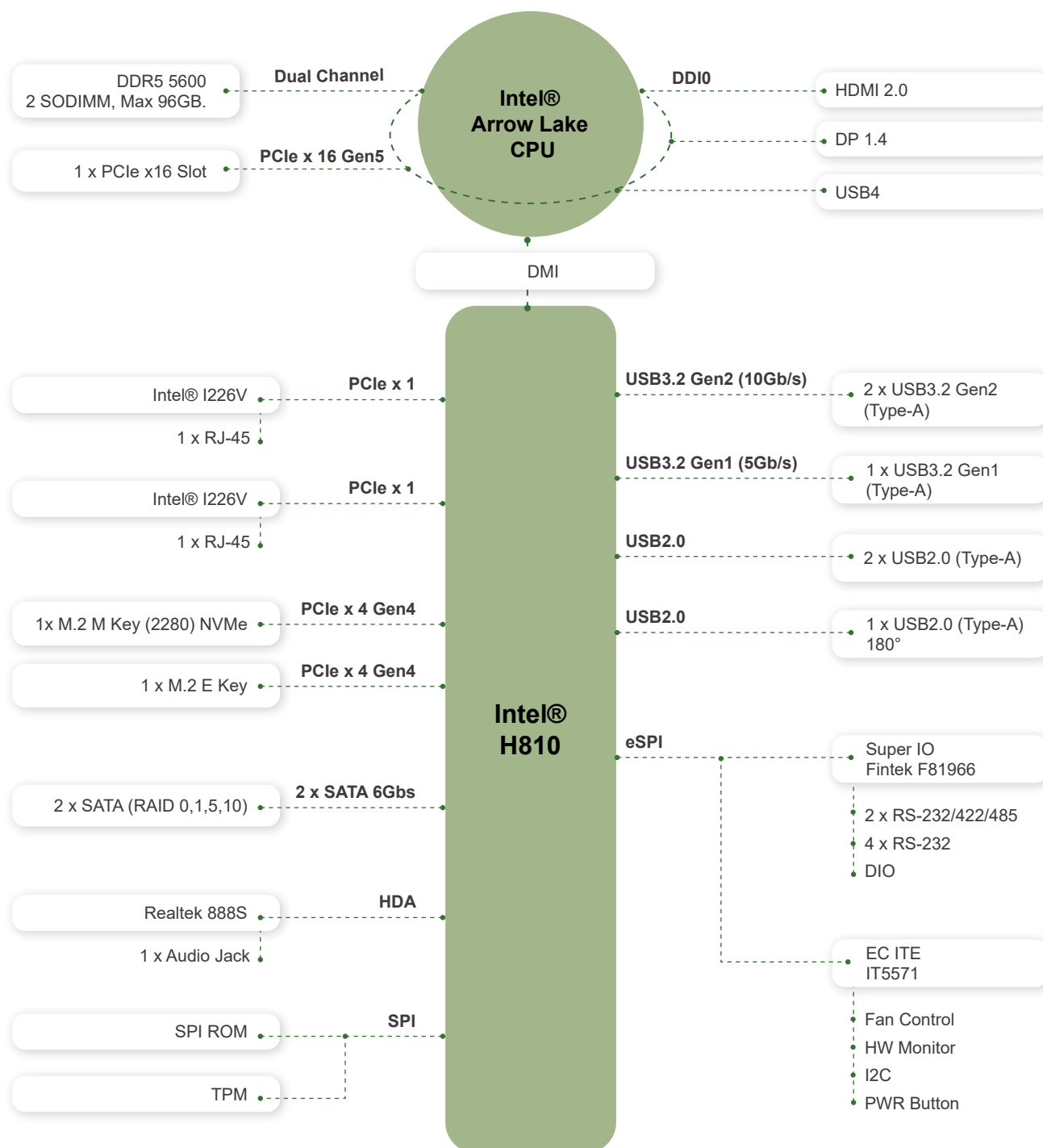
The KINO-ARL-H810 provides PCIe x16 (Gen 4) for expansion, M.2 A key for Bluetooth and Wi-Fi modules, M.2 M key for NVME storage



Triple independent displays

Supports triple independent displays via HDMI 2.0, DP1.4 and USB4 for high-performance applications.

Block Diagram



Dimensions

Optional Accessories



CB-USB02A-RS



19800-000300-100-RS



19100-000323-00-RS



19100-000333-00-RS

Specifications

Model	KINO-ARL-H810
CPU	LGA1851 socket supports high-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)
BIOS	UEFI AMI BIOS
Memory	Two 262-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered,Clocked Unbuffered SO-DIMM(CSODIMM support 6400 MHz) supported up to 96GB
Graphics Engine	New Intel® Xe Graphics architecture with SRIOV, Genlock
Display Output	Triple independent display 1 x DP 1.4(up to 4k @60Hz) 1 x HDMI 2.0(up to 4k @60Hz) 1 x USB4 (40Gb/s speed,support DP 4096 x 2304 @60Hz,up to 15W per port power for accessories
Ethernet	LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller
External I/O Interface	2 x USB 3.2 Gen2 (Type-A) (10Gb/s) 2 x USB 2.0 (Type-A) 1 x USB 3.2 Gen1 (Type-A) 2 x RS-232/422/485
Internal I/O Interface	4 x RS-232 (2x5 pin, P=2.0) 2 x USB 2.0 (2x4 pin, P=2.0) 1 x USB 2.0 (Type A) 90° 2 x SATA 6Gb/s
SMBus	1 x SMBus (1x4 pin)
I2C	1 x I2C(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)
Expansion	1 x PCIe x16 (Gen4 x16) 1 x M.2 M key (2280,PCIe Gen4 x4) 1 x M.2 E key(2230 ,PCIe Gen4 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 TPM 2 x10 pin ,support Intel PTT
Fan connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Chassis open	1 x Chassis intrusion (1x2 pin)
Power Supply	12V DC input (DC jack) 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
Dimension	170mm x 170mm
Weight	GW:1200g / NW:700g
Certification	CE/FCC Compliant

Packing List

1 x KINO-ARL-H810 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

KINO-ARL-H810-R10	Mini-ITX SBC with high-Performance Intel® Core™ Ultra Processors (Series 2), DDR5 SO-DIMM, Triple Display, Dual Intel 2.5GbE, USB3.2, M.2, RoHS
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Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.0
19800-000300-100-RS	Serial port cable with bracket, 300 mm, p=2.0 mm
19100-000323-00-RS	High-performance cooler, 65W (72 x 70 x 25.5 mm)
19100-000333-00-RS	High-performance cooler, 80W, (72 x 48.5 x 73.5 mm)