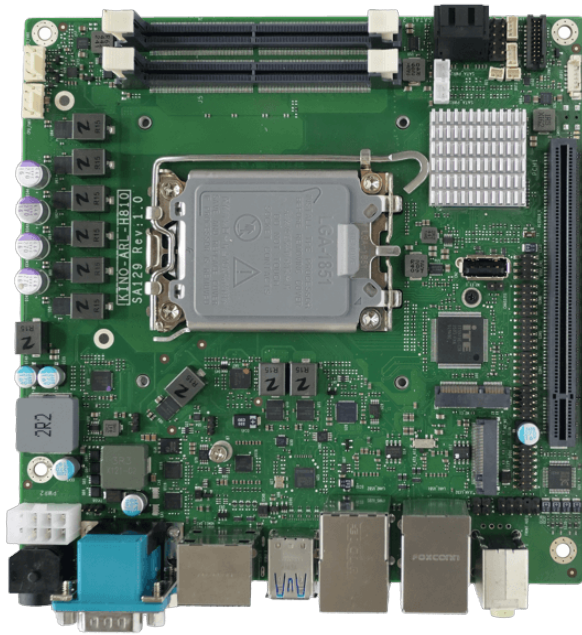


## KINO-ARL-H810

mini-ITX SBC supports LGA1851 high-Performance Intel® Core™ Ultra Processors (Series 2)



## Features

- » mini-ITX SBC supports high-Performance Intel® Core™ Ultra Processors (Series 2)
- » Two 262-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered SO-DIMM
- » Triple independent display via HDMI™, USB4 and DP
- » Support dual Intel® I226V 2.5GbE controller
- » Support PCIe Gen4 x16, M.2 M key and M.2 E key expansion

## Specifications

| Form Factor                 |                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor                 | Mini-ITX SBC                                                                                                                                          |
| System                      |                                                                                                                                                       |
| CPU                         | LGA1851 socket supports high-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)                                                 |
| Memory                      | Two 262-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered SO-DIMM (CSODIMM support 6400 MHz)                                        |
| Memory Max.                 | up to 96GB                                                                                                                                            |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin)<br>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 (up to 4K @60Hz)<br>1 x HDMI™ : 2.0 (up to 4K @60Hz)<br>1 x USB4 : up to 4k @60Hz                                              |
| Ethernet                    | 2 x LAN -<br>LAN1: Intel® I226-V 2.5GbE controller<br>LAN2: Intel® I226-V 2.5GbE controller                                                           |
| Audio                       | HD Audio : Realtek ALC888S HD codec<br>2 x Audio Jack (Line-out, Mic-in) on rear IO<br>1 x Analog audio (2x5 pin)                                     |
| I/O Interface               | 1 x DIO : 12-bit digital I/O (2x7 pin)<br>2 x External RS-232/422/485<br>2 x External USB 2.0 : Type-A<br>1 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s |

|                       |                                                                                    |
|-----------------------|------------------------------------------------------------------------------------|
|                       | 2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s                                       |
|                       | 1 x I <sup>2</sup> C 1x4 pin                                                       |
|                       | 4 x Internal RS-232 : 2x5 pin, P=2.0                                               |
|                       | 3 x Internal USB 2.0 -<br>2 x USB 2.0 (2x4 pin, P=2.0)<br>1 x USB 2.0 (Type A) 90° |
| Expansion             | 1 x PCIe x16 : with x16 Signal Gen4                                                |
| Other Features        |                                                                                    |
| TPM                   | 2x10 pin                                                                           |
| Power                 |                                                                                    |
| Power Consumption     | 12V@11.14A                                                                         |
|                       | (Intel® Core Ultra5 245 with 32 GB 5600 MHz DDR5 memory, EuP mode disabled)        |
| Power Supply          | 12V DC input (DC jack)                                                             |
|                       | Support AT/ATX mode                                                                |
|                       | 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 M key (2280,PCIe Gen4 x4)                                                  |
|                       | 1 x M.2 E key (2230 ,PCIe Gen4 x1 &USB 2.0) for wifi/BT                            |

## Ordering Information

|                   |                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|
| KINO-ARL-H810-R10 | Mini-ITX SBC with Intel®15th Generation Ultra™ processor,DDR5 SO-DIMM, Quad Display,Dual Intel 2.5GbE,USB3.2,M.2,RoHS |
|-------------------|-----------------------------------------------------------------------------------------------------------------------|

## Packing List

|                                         |                   |
|-----------------------------------------|-------------------|
| 1 x KINO-ARL-H810 single board computer | 1 x I/O Shielding |
| 2 x SATA cable                          | 1 x QIG           |