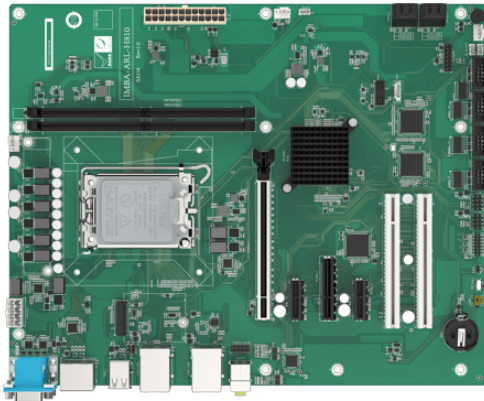


IMBA-ARL-H810

ATX motherboard supports LGA1851 High-Performance Intel® Core™ Ultra Processors (Series 2), DDR5, Triple independent displays, dual LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



Features

- » High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU)
- » Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM(CUDIMM support 6400MHz) supported up to 96GB
- » Triple independent display via HDMI™, DP and iDPM
- » Support Dual Intel® I226V/I219 LM 2.5GbE controller
- » Support PCIe Gen4 x1, PCIe Gen4 x4, PCIe Gen5 x16 and PCI expansion

Specifications

| | |
|-----------------------------|---|
| Form Factor | |
| Form Factor | ATX |
| System | |
| CPU | High-Performance Intel® Core™ Ultra Processors (Series 2) (up to 65W TDP CPU) |
| Chipset | Intel® H810 |
| Memory | Two 288-pin 5600 MHz Dual-Channel DDR5 SDRAM Unbuffered, Clocked Unbuffered DIMM(CUDIMM support 6400MHz) supported up to 96GB |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin) |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 244mm x 305mm |
| Net Weight | GW: 1200g / NW: 700g |
| Storage | |
| Storage | 4 x SATA : 4 x SATA 6Gb/s |
| I/O Interface | |
| Display Output | 1 x HDMI™ 2.0 (up to 4K@60Hz) 1 x Display Port 1.4 (up to 4K@60Hz) 1 x iDPM 3040 slot (only for IEI eDP/LVDS/VGA module) |
| Ethernet | 2 x LAN - LAN1: Intel® I219 LM controller LAN2: Intel® I226V 2.5GbE controller |
| Audio | HD Audio : Realtek ALC888S HD codec 2 x Audio Jack (Line-out, Mic-in) on rear IO 1 x Analog audio (2x5 pin) |
| I/O Interface | 2 x External RS-232/422/485 : RS-485 support AFC 4 x Internal RS-232 : 2x5 pin, P=2.54 2 x External USB 2.0 : Type-A 2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s 4 x Internal USB 2.0 : 2x4 pin, P=2.00 1 x DIO : 12-bit digital I/O (2x7 pin) |

| | |
|-----------------------|---|
| | 2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s |
| | 1 x I ² C : 1x4 pin |
| Expansion | 1 x PCIe x16 : with Signal Gen5 |
| | 1 x PCIe x4 : open-end Gen4 |
| | 2 x PCIe x1 : Gen4 x1 |
| | 2 x PCI Slot |
| Power | |
| Power Consumption | 3.3V@0.64A, 5V@3.63A, 12V@6.49A, 5Vsb@0.53A (Intel Ultra 9 285T with DDR5 4800MHz 32GB memory) |
| Power Supply | ATX/AT power supply 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 |
| Certifications | |
| Safety & EMC | CE/FCC compliant |
| Watchdog Timer | |
| Watchdog Timer | Software Programmable support 1~255 sec. System reset |

Ordering Information

| | |
|-------------------|---|
| IMBA-ARL-H810-R10 | ATX motherboard supports LGA1851 Intel® 15th Generation Ultra™ processor, DDR5, Triple independent displays, dual LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
|-------------------|---|

Packing List

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