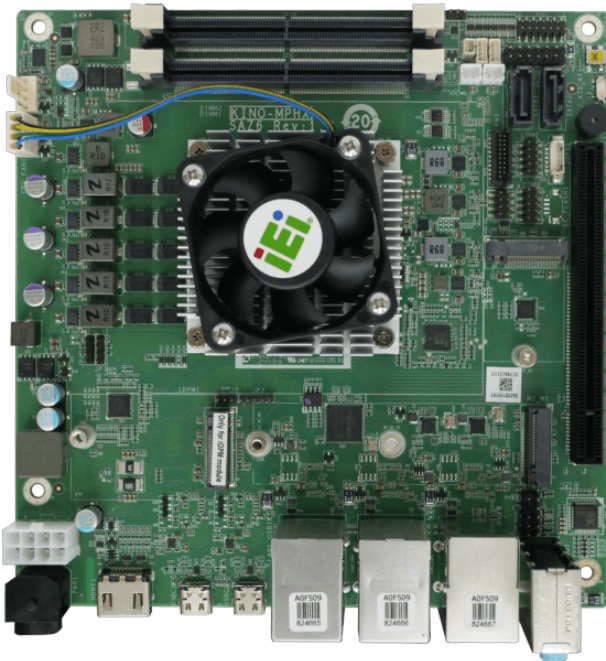


# KINO-MPHX

Mini-ITX SBC with AMD Ryzen™ 7040 & 8040 Series Mobile Processors, DDR5 SO-DIMM, Quadra Display, Triple Realtek 2.5GbE, USB3.2, M.2, RoHS



## Features

1. Mini-ITX SBC supports AMD Ryzen™ 7040 & 8040 Series Mobile Processors
2. Two 262-pin 5600 DDR5 SO-DIMM supported up to 64GB
3. Quad independent display via USB4, HDMI, iDPM
4. Support triple REALTEK RTL8125BG-CG 2.5GbE controller
5. Support PCIe Gen4 x16, M.2 M key and M.2 A key expansion

## Specifications

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Form Factor                 |                                                                     |
| Form Factor                 | Mini-ITX                                                            |
| System                      |                                                                     |
| CPU                         | AMD Ryzen™ 7040 & 8040 Series mobile processors                     |
| Memory                      | Two 262-pin 5600 MHz Dual-Channel DDR5 SO-DIMM supported up to 64GB |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin)                                     |
|                             | 1 x System fan connector (1x4 pin)                                  |
| Physical Characteristics    |                                                                     |
| Dimensions (LxWxH) (mm)     | 170mm x 170mm                                                       |
| Net Weight                  | GW: 900g / NW: 700g                                                 |
| Storage                     |                                                                     |
| Storage                     | 2 x SATA : 6Gb/s                                                    |
| I/O Interface               |                                                                     |
| Display Output              | 1 x HDMI™ : up to 4096 x 2304 @30Hz                                 |
|                             | 1 x iDPM : iDPM 3040 slot (only for IEI iDPM module)                |
| Ethernet                    | 3 x LAN -                                                           |
|                             | LAN1: REALTEK RTL8125BG-CG 2.5GbE controller                        |
|                             | LAN2: REALTEK RTL8125BG-CG 2.5GbE controller                        |
|                             | LAN3: REALTEK RTL8125BG-CG 2.5GbE controller                        |
| Audio                       | 1 x HD Audio - Realtek ALC885 HD Audio codec                        |
|                             | 2 x Audio jack (Line-out, Mic-in)                                   |
|                             | 1 x Front audio (2x5 pin)                                           |
| I/O Interface               | 1 x DIO : 12-bit digital I/O (2x7 pin)                              |
|                             | 4 x External USB 3.2 Gen1x2 : Type-A, 5Gb/s                         |
|                             | 2 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s                        |
|                             | 2 x Internal RS-232/422/485 : 2x5 pin, P=2.0                        |
|                             | 2 x Internal USB 2.0 : 2x4 pin, P=2.0                               |

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Expansion             | 1 x M.2(NGFF) -                                     |
|                       | 1 x M.2 M key (2242/80, PCIe Gen4 X 4)              |
|                       | 1 x M.2 A key (2230, PCIe Gen4 x1 & USB 2.0)        |
|                       | 1 x PCIe x16 : (Slot1) with x8 Signal Gen4          |
| Power                 |                                                     |
| Power Consumption     | 12V@11.599A                                         |
|                       | (AMD Ryzen 9 8945HS CPU with 32GB DDR5 5600 memory) |
| Power Supply          | Support AT/ATX mode                                 |
|                       | 12VDC                                               |
|                       | ErP/EuP Compliant                                   |
| Environment           |                                                     |
| Operating Temperature | 0°C ~ 60°C                                          |
| Storage Temperature   | -30°C ~ 70°C                                        |
| Humidity              | 5% ~95%, non-condensing                             |

## Ordering Information

|                   |                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| KINO-MPHX-87A-R10 | Mini-ITX SBC with AMD Ryzen™ 5 8845HS mobile Processors,DDR5 SO-DIMM, Triple Display,Triple Intel 2.5GbE,USB3.2,M.2,RoHS |
| KINO-MPHX-85A-R10 | Mini-ITX SBC with AMD Ryzen™ 5 8645HS mobile Processors,DDR5 SO-DIMM, Triple Display,Triple Intel 2.5GbE,USB3.2,M.2,RoHS |

## Packing List

|                                     |                   |
|-------------------------------------|-------------------|
| 1 x KINO-MPHX single board computer | 1 x I/O Shielding |
| 1 x SATA cable                      | 1 x QIG           |