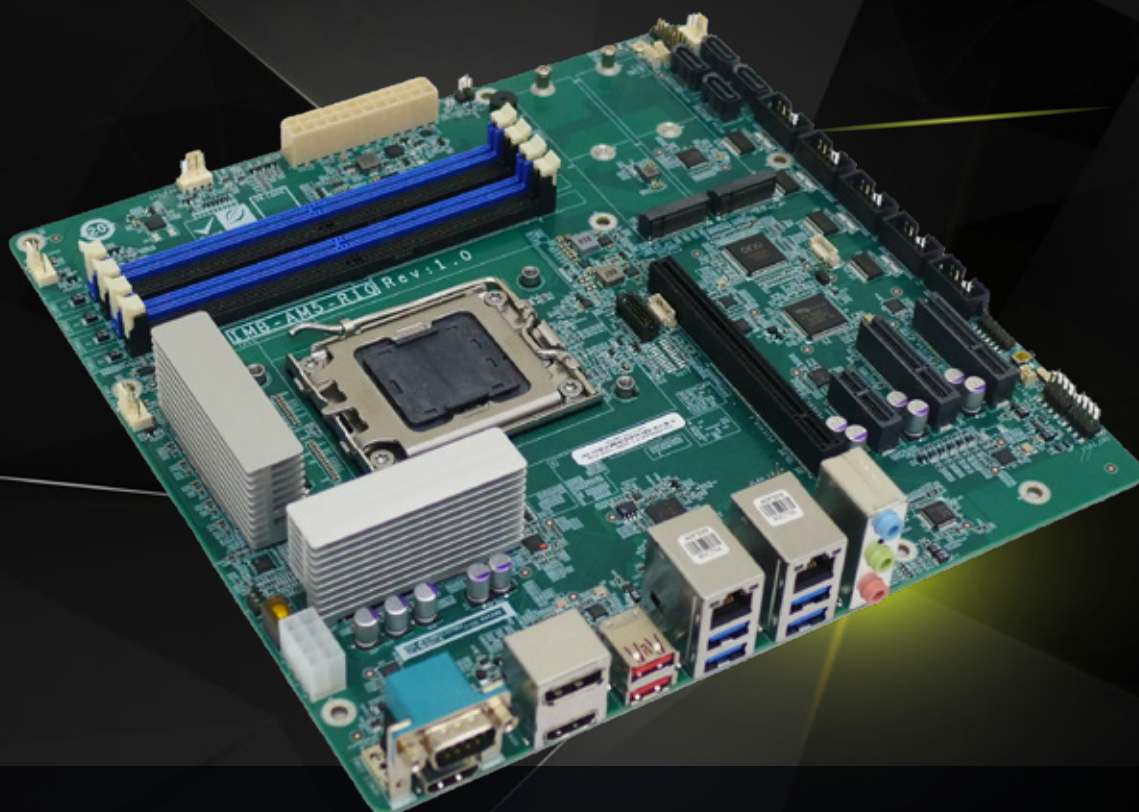


# IMB-AM5

# IMB-RZ7000

micro-ATX motherboard supports AMD 7000&8000G&9000 PHX1 series processor

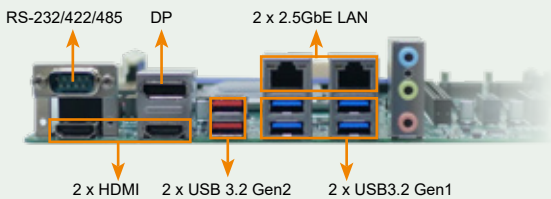
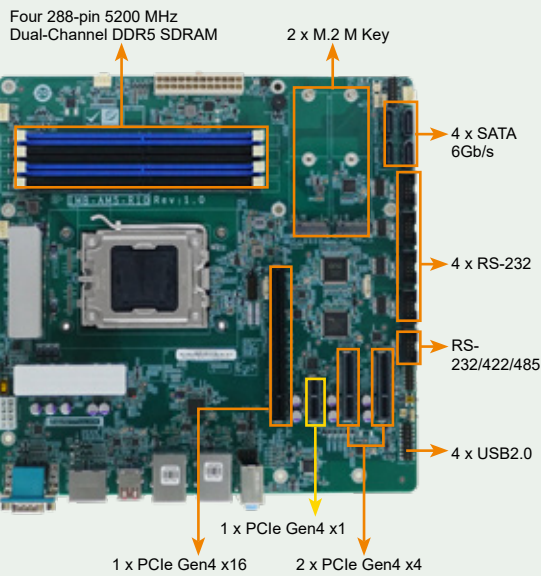
- Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 196GB
- Support Triple independent display via DP and HDMI
- Support M key for NVME storage
- High Performance ATX motherboard with PCIe Gen4 expansion Slot



[www.ieiworld.com](http://www.ieiworld.com)

# IMB-AM5 IMB-RZ7000

micro-ATX motherboard supports AMD 7000&8000G&9000 PHX1 series processor, DDR5, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## Support AMD Ryzen™ 7000&8000G&9000 PHX1 Series CPU

AMD AM5 Socket for AMD Ryzen™ 7000&8000G PHX1 Series Desktop Processors (up to 170W TDP CPU)



## Support Intel® I226V 2.5GbE Network Controller

Two RJ45 network ports are provided via Intel® I226V 2.5GbE network controller to achieve up to 2.5GbE network transmission rate



## Rich Expansion Slots

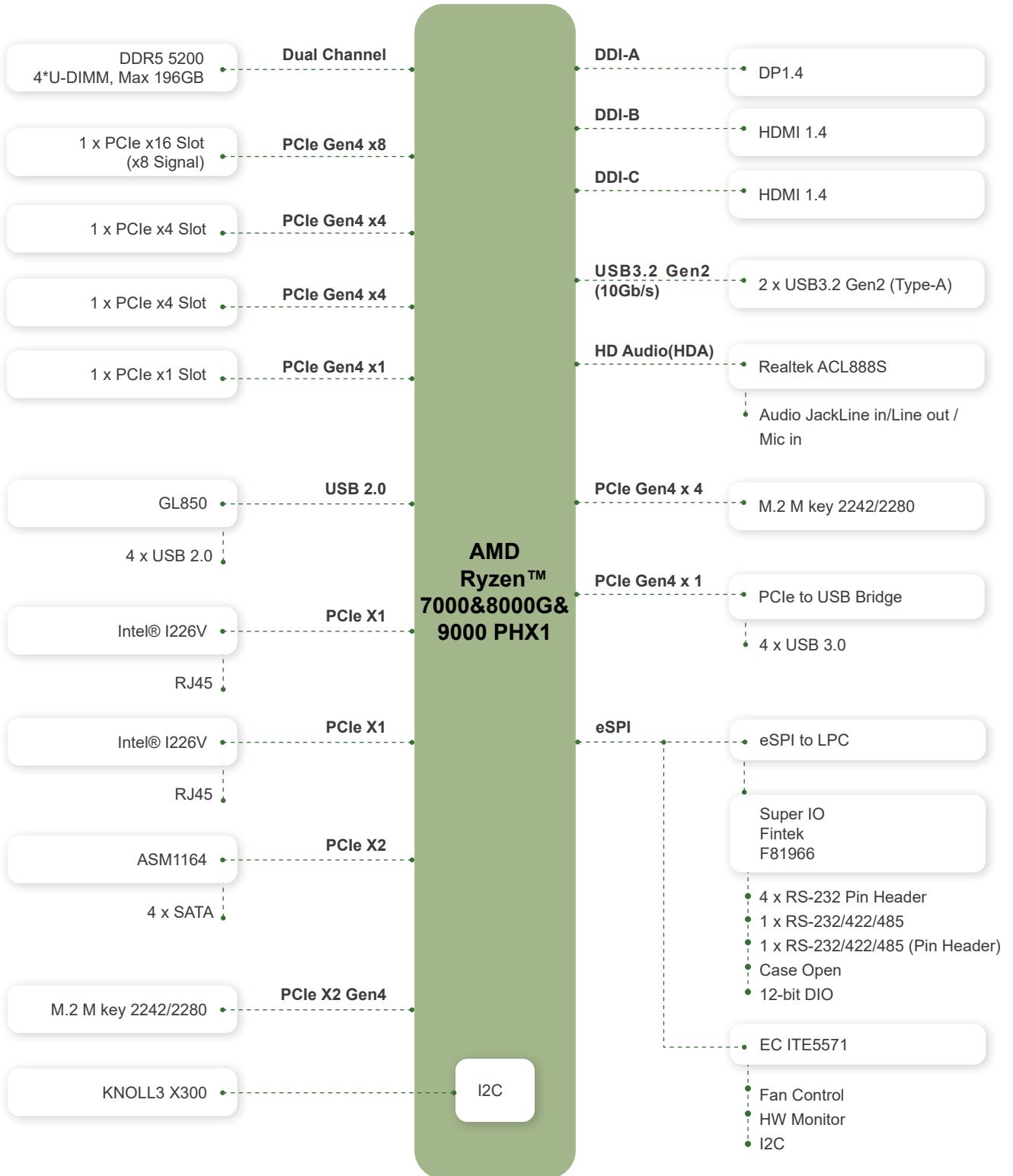
It includes one PCIe x16, two PCIe x4, one PCIe x1 and two M.2 M Key for more expansion cards to install.



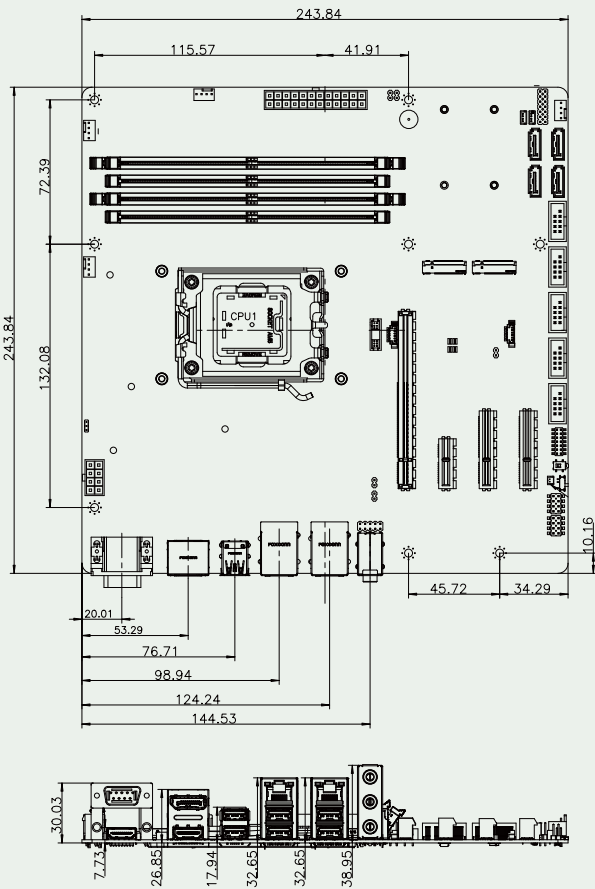
## Support Four SATA for Storage

It supports 4 x SATA 6Gb/s. Otherwise, there are 2 x M.2 M key with PCIe signal support NVMe storage

# Block Diagram



Dimensions



Optional Accessories



Specifications

|                        |   |
|------------------------|---|
| Model                  | IMB-AM5<br>IMB-RZ7000   |
| CPU                    | AMD Socket AM5 for AMD Ryzen™ 7000&8000G&9000 PHX1 Series Desktop Processors  |
| BIOS                   | AMI UEFI BIOS   |
| Memory                 | Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 196GB  |
| Graphics Engine        | Integrated RDNA2 GPU  |
| Display Output         | Triple independent display<br>1 x DP (up to 4096x2304@60Hz)<br>2 x HDMI (up to 4096x2304@30Hz)  |
| Ethernet               | LAN1: Intel® I226-V 2.5GbE controller<br>LAN2: Intel® I226-V 2.5GbE controller  |
| Super I/O              | Fintek 81966  |
| Embedded Controller    | ENEKB9068   |
| External I/O Interface | 2 x USB 3.2 Gen2 (Type-A) (10Gb/s)<br>4 x USB 3.2 Gen1 (Type-A) (5Gb/s)<br>1 x RS-232/422/485 (RS-485 support AFC)  |
| Internal I/O Interface | 1 x RS-232/422/485 (RS-485 support AFC) (2x5 pin, P=2.54)<br>4 x SATA 6Gb/s<br>4 x RS-232 (2x5 pin, P=2.54)<br>4 x USB2.0 (2x4 pin, P=2.54)   |
| SMBus                  | 1 x SMBus (1x4 pin)   |
| I2C                    | 1 x I2C (1x4 pin)   |
| Audio                  | Realtek ALC888S HD Audio codec supports 7.1-channel<br>3 x Audio jacks (line-out, line-in, mic-in) on rear IO<br>1 x Front audio (2x5 pin)  |
| Front Panel            | 1 x Front Panel<br>(2 x 7 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 x8 Signal Gen4<br>2 x PCIe x4 open-end (Slot3&4) Gen4 (slot3 will disable with Ryzen8000G PHX1)<br>1 x PCIe x1 (Slot 2, PCIe Gen4 x1 signal)<br>1 x M.2 M Key (2242/2280, PCIe x4 ) NVMe support (disable with Ryzen8000G PHX1)<br>1 x M.2 M Key (2242/2280, PCIe x2 ) NVMe support (NVMe RAID 0/1 support) |
| Digital I/O            | 1 x 12-bit digital I/O (2x7 pin)  |
| TPM                    | 1 x TPM 2.0 (TPM-IN03)(optional) & Intel PTT  |
| FAN connector          | 1 x CPU fan connector (1x4 pin)<br>2 x System fan connector (1x4 pin)<br>1 X PUMP fan connector (1x4 pin)   |
| Chassis Open           | 1 x Chassis intrusion (1x2 pin)   |
| Power supply           | ATX/AT power supply<br>Support AT/ATX mode<br>ErP/EuP Compliant   |
| Watchdog Timer         | Software Programmable support 1~255 sec. System reset   |
| Power Consumption      | 3.3V@1.66A, 5V@9.29A, 12V@16.33A, 5VSB@0.07A<br>(AMD Ryzen 9 7950X 170W with Transcend JM5600ALE-16GB X4 memory)  |
| Operating Temperature  | 0°C ~ 60°C  |
| Storage Temperature    | -30°C ~ 70°C  |
| Operating Humidity     | 5% ~95%, non-condensing   |
| Dimensions             | 244mm x 244mm   |
| Weight                 | GW:1200g / NW:700g  |
| Certification          | CE/FCC Compliant  |

Packing List

|  |                |
|--|----------------|
| 1 x IMB-AM5 single board computer      | 2 x SATA cable |
| 1 x I/O Shielding (45014-0108C0-00-HF) | 1 x QIG        |

Ordering Informaiton

|                |   |
|----------------|---|
| IMB-AM5-R10    | micro-ATX motherboard supports AMD 7000&8000G&9000 PHX1 series processor, DDR5, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
| IMB-RZ7000-R10 | micro-ATX motherboard supports AMD 7000 series processor, DDR5, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS                 |

Optional Accessories

|                     |   |
|---------------------|---|
| 32205-000702-200-RS | RS-232/422/485; RS-232 cable, 230mm, P=2.54                       |
| 19800-003100-100-RS | Dual port USB cable with bracket, 300mm, P=2.54                   |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P                        |
| 19100-000344-00-RS  | 65W CPU fan, Heatsink: 58 x 45.5 x 71.81mm, Fan: 60 x 60 x 25.4mm |
| 19100-000345-00-RS  | 65W CPU fan, Heatsink: 72 x 70 x 25.5mm, Fan: 70 x 70 x 15.3mm    |
| 19100-000348-00-RS  | 120W CPU fan, Heatsink: 98 x 72 x 120mm, Fan: 92 x 92 x 25mm      |
| 19100-000338-00-RS  | 170W CPU fan, Heatsink: 120 x 60 x 150.7mm, Fan: 120 x 120 x 25mm |