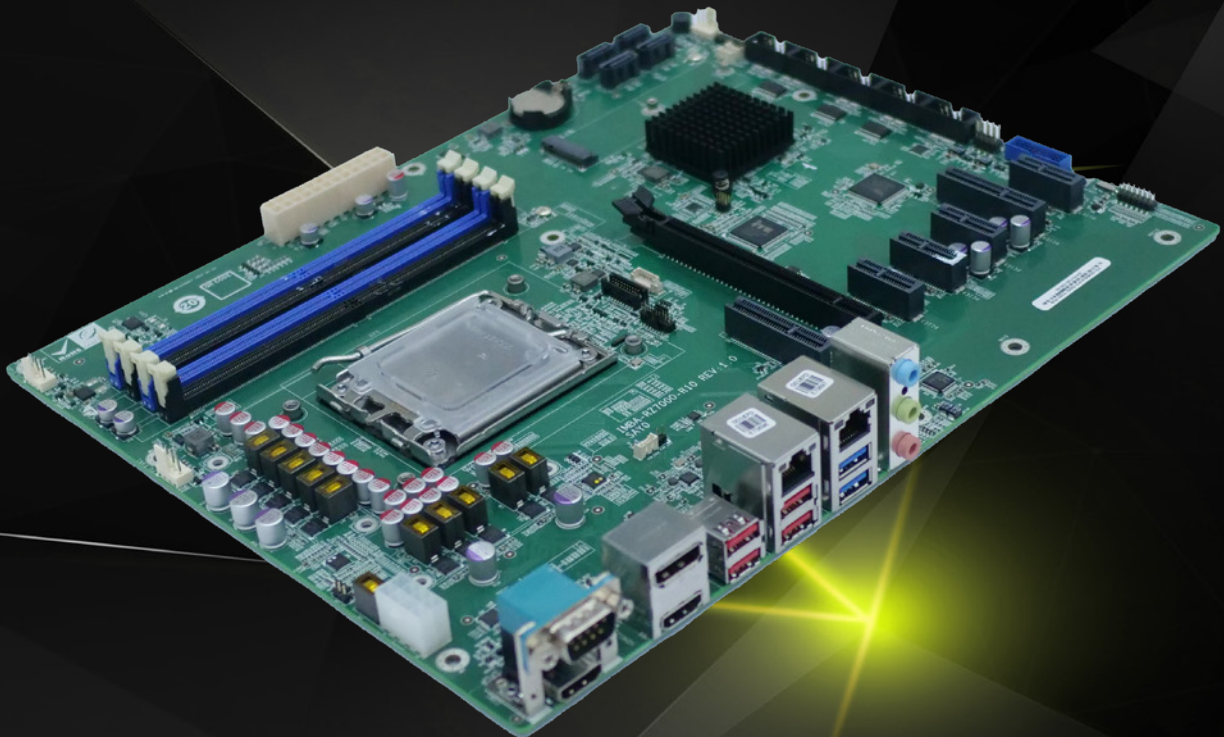


# IMBA-AM5

ATX motherboard supports AMD 7000&8000G PHX1 series processor

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- Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM, supported up to 128GB
- Triple independent display: 1 x DP 1.4 and 2 x HDMI 2.0
- Support dual Intel® I226-V 2.5GbE controllers
- Support 1 x PCIe Gen4 x16, 2 x PCIe Gen4 x4, 4 x PCIe Gen4 x1 and M.2 M key expansion



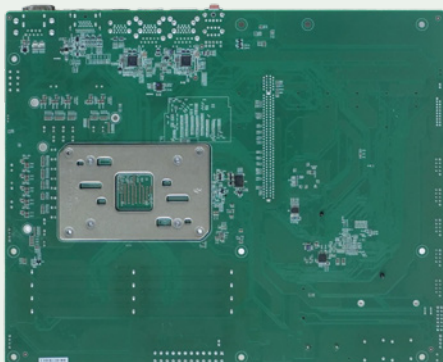
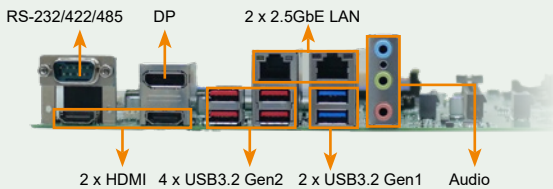
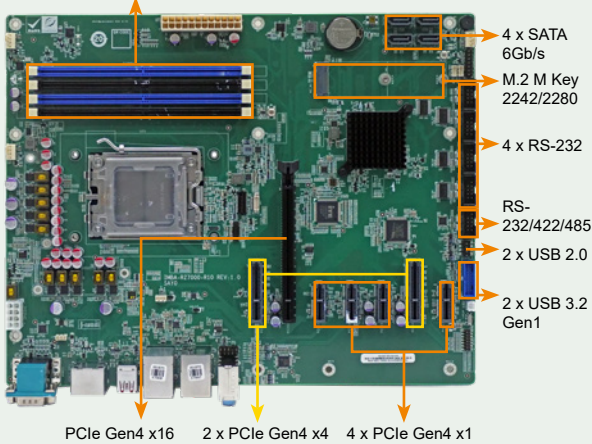
[www.ieiworld.com](http://www.ieiworld.com)

# IMBA-AM5

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



4 x 288-pin 5200 MHz Dual-Channel DDR5 SDRAM, up to 128GB



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

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



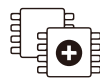
## Support Dual-Channel DDR5 SO-DIMMs

Four 288-pin Dual-Channel DDR5 SDRAM Unbuffered DIMMs, supported up to 128GB, Speeds up to 5200MHz



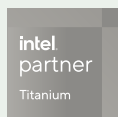
## Support Intel® I226-V 2.5GbE Network Controller

Two RJ45 network ports are provided via Intel® I226-V 2.5GbE network controller to achieve up to 2.5GbE network transmission rate

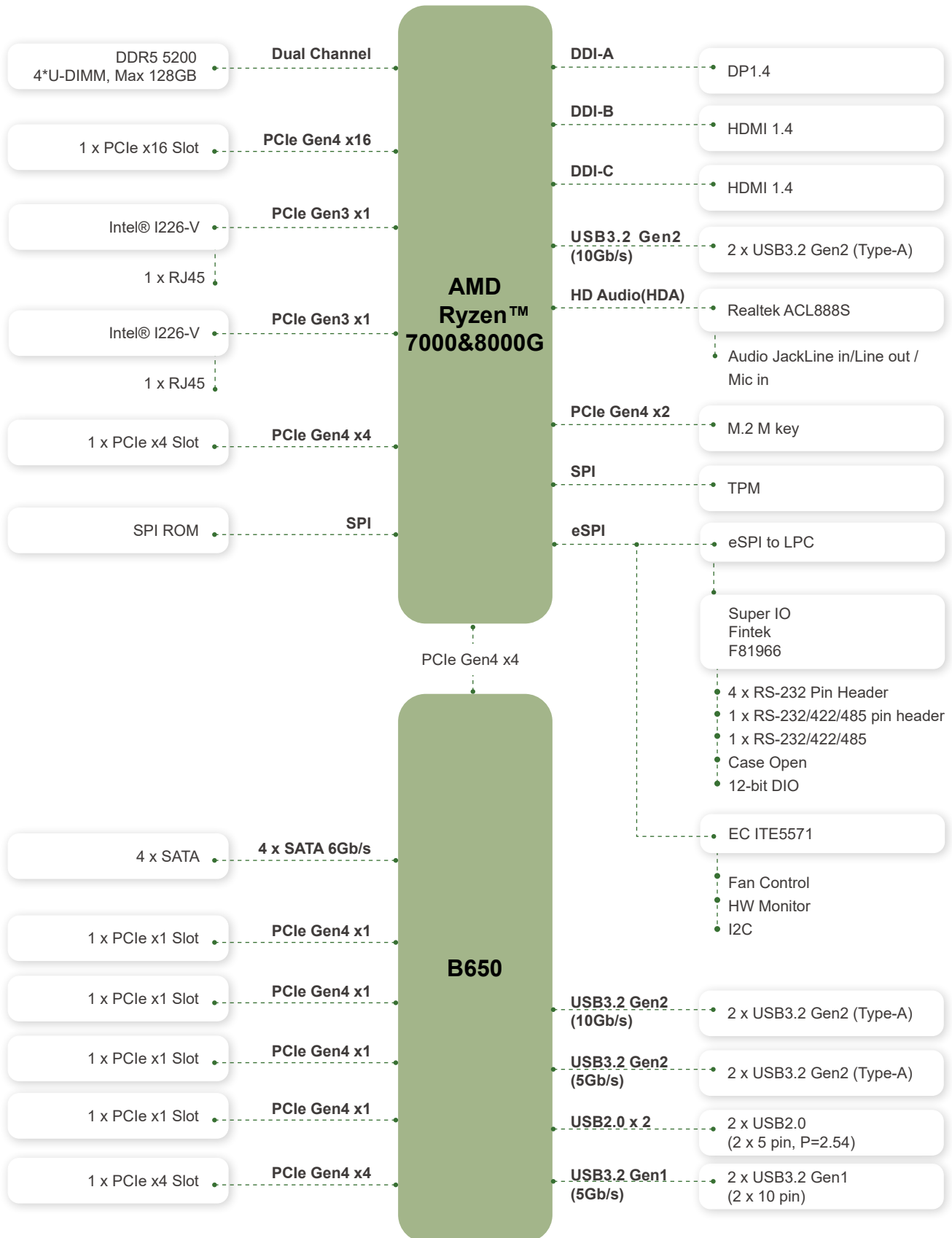


## Abundant Expansion Slots

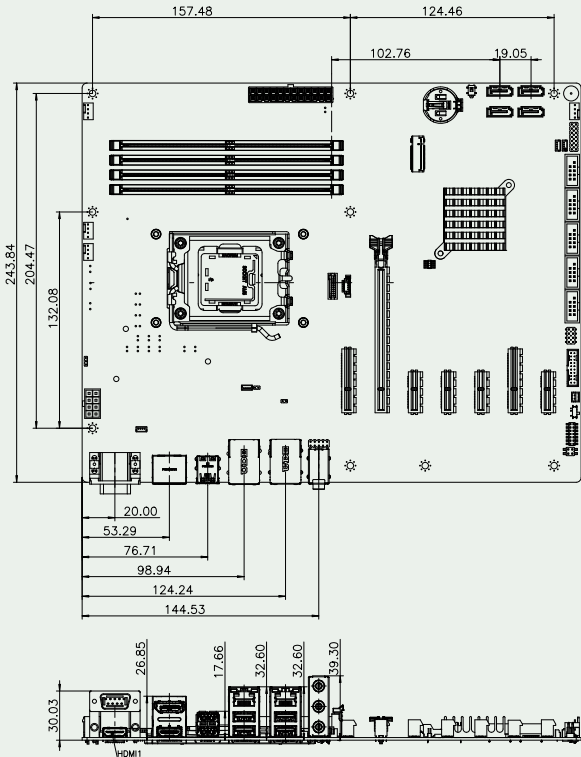
The IMBA-AM5 provides 1 x PCIe Gen4 x16, 2 x PCIe Gen4 x4 and 4 x PCIe Gen4 x1 for expansion, M.2 M key for NVME storage



# Block Diagram



### Dimensions



### Optional Accessories



### Specifications

| Model                  | IMBA-AM5  |
|------------------------|---|
| CPU                    | AMD Socket AM5 for AMD Ryzen™ 7000&8000G PHX1 Series Desktop Processors   |
| Chipset                | AMD B650  |
| BIOS                   | AMI UEFI BIOS   |
| Memory                 | Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 128GB  |
| Graphics Engine        | Integrated RDNA2 GPU  |
| Display Output         | Triple independent display<br>1 x DP 1.4 (up to 4096x2304@60Hz)<br>2 x HDMI 1.4 (up to 4096x2304@30Hzz)   |
| Ethernet               | LAN1: Intel® I226V 2.5GbE controller<br>LAN2: Intel® I226V 2.5GbE controller  |
| External I/O Interface | 4 x USB 3.2 Gen2 (Type-A) (10Gb/s)<br>2 x USB 3.2 Gen1 (Type-A) (5Gb/s)<br>1 x RS-232/422/485 (RS-485 support AFC)  |
| Internal I/O Interface | 2 x USB 2.0 (2x4 pin, P=2.54)<br>1 x RS-232/422/485 (2 x 5, P=2.54) (RS-485 support AFC)<br>2 x USB 3.2 Gen1 (2 x 10 pin) (5Gb/s)<br>4 x SATA 6Gb/s (RAID 0/1/10 supported)<br>4 x RS-232 (2x5 pin, P=2.54) |
| SMBus                  | 1 x SMBus(1x4 pin)  |
| I2C                    | 1 x I2C(1x4 pin)  |
| Audio                  | Realtek ALC888S HD Audio codec supports 2.1-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 Gen4 x16 (Slot1) with x16 Signal (withn Ryzen8000G PHX1 only X8 Signal)<br>2 x PCIe Gen4 x4 open-end<br>4 x PCIe Gen4 x1 open-end<br>1 x M.2 M Key (2242/2280, PCIe Gen4 x2) NVMe support          |
| Digital I/O            | 1 x 12-bit digital I/O (2x7 pin)  |
| TPM                    | 1 x TPM 2.0 (TPM-IN03)(optional) & AMD fTPM   |
| FAN connector          | 1 x CPU fan connector (1x4 pin)<br>1 X PUMP fan connector (1x4 pin)<br>2 x System fan connector (1x4 pin)   |
| Chassis Open           | 1 x Chassis intrusion (1x2 pin)   |
| One key BIOS Flash     | 1X One key BIOS Flash(2X2 pin P=2.54)   |
| 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@1.62A, 5V@11.63A, 12V@19.46A, 5VSB@0.04A<br>(AMD Ryzen 9 7950X; AMD Ryzen 9 7900 CPU with Apacer D12.35306H.001 32GB DDR5 5600 CL46 memory)  |
| Operating Temperature  | 0°C~60°C  |
| Storage Temperature    | -30°C ~ 70°C  |
| Operating Humidity     | 5% ~95%, non-condensing   |
| Diemensions            | 244mm x 305mm   |
| Weight                 | GW:1200g / NW:700g  |

### Packing List

|                                    |                |
|------------------------------------|----------------|
| 1 x IMBA-AM5 single board computer | 2 x SATA cable |
| 1 x I/O Shielding                  | 1 x QIG        |

### Ordering Informaiton

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

### Optional Accessories

|                     |  |
|---------------------|--|
| 19800-003100-100-RS | Dual port USB cable with bracket, 300mm, P=2.54          |
| 19800-010500-200-RS | USB 3.0 cable 450mm with bracket                         |
| 32205-000702-200-RS | RS-232 cable, 230mm, P=2.54                              |
| 19100-000344-00-RS  | 65W CPU Fan, HEATSINK: 58*45.5*71.81mm, FAN:60*60*25.4mm |
| 19100-000345-00-RS  | 65W CPU Fan, HEATSINK: 72*70*25.5mm, FAN:70*70*15.3mm    |
| 19100-000348-00-RS  | 120W CPU Fan, HEATSINK: 98*72*120mm, FAN:92*92*25mm      |
| 19100-000338-00-RS  | 170W CPU Fan, HEATSINK: 120*60*150.7mm, FAN:120*120*25mm |