

IMB-AM5

IMB-RZ7000

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

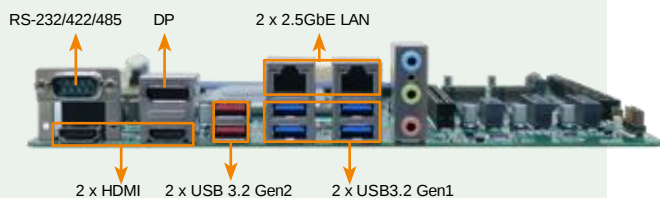
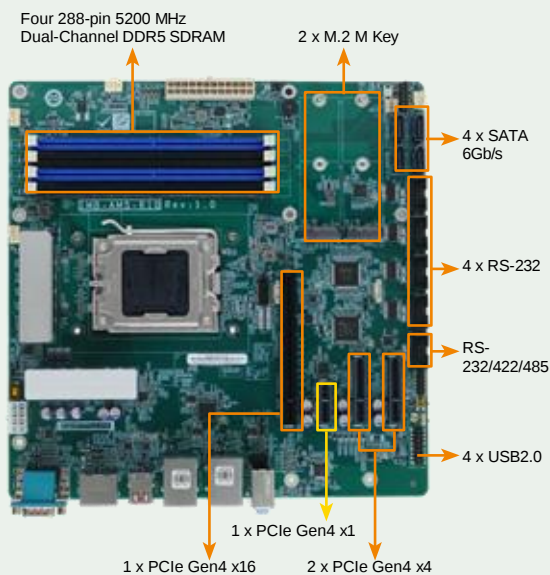
- Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 196GB
- Support Triple independent display via DP and HDMI
- Support M key for NVME storage
- High Performance ATX motherboard with PCIe Gen4 expansion Slot



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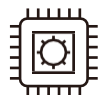
IMB-AM5 IMB-RZ7000

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



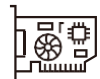
Support AMD Ryzen™ 7000&8000G PHX1&9000 Series CPU

AMD AM5 Socket for AMD Ryzen™ 7000&8000G PHX1&9000 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

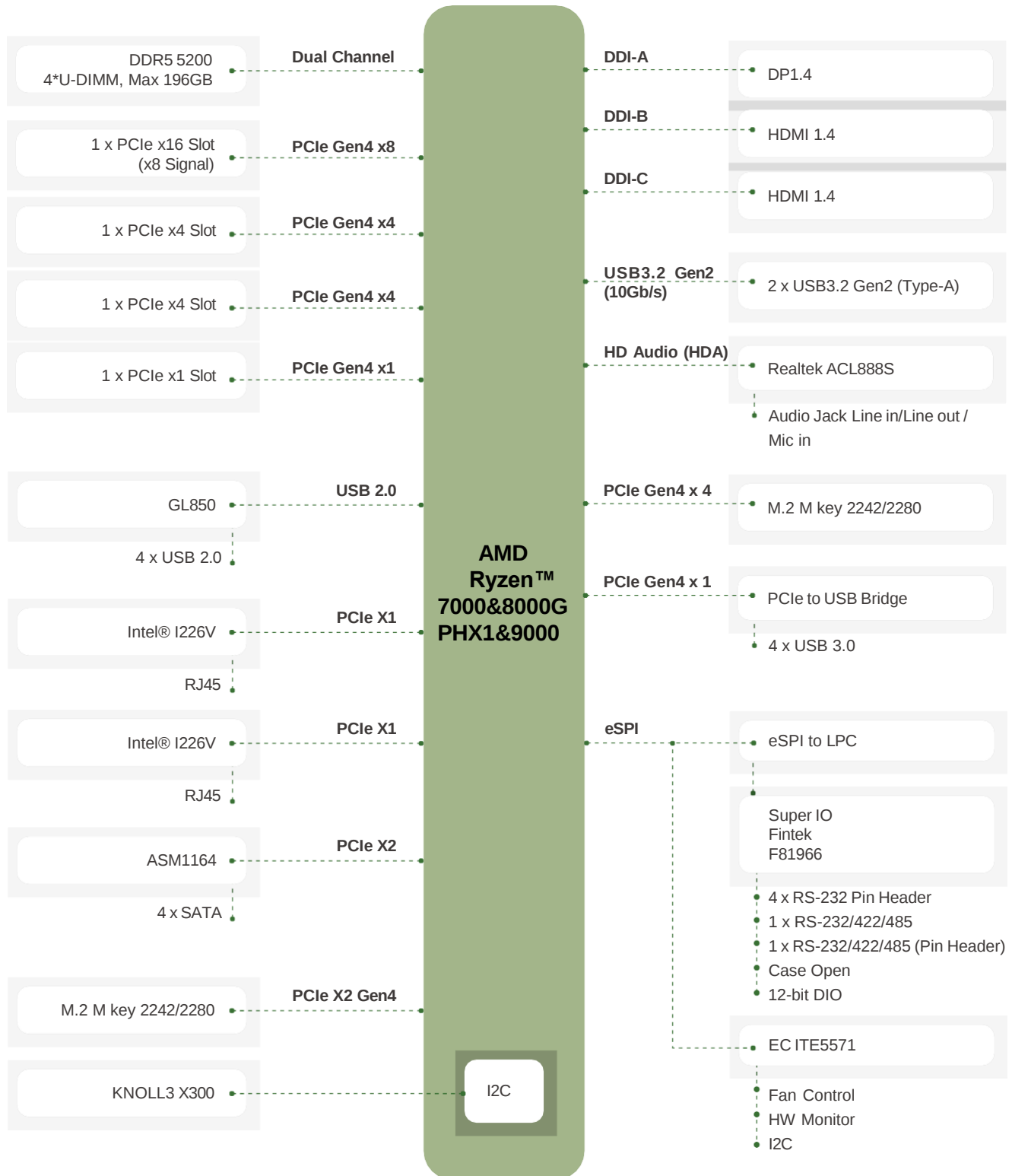
It includes one PCIe x16, two PCIe x4, one PCIe x1 and two M.2 M Key for more expansion cards to install.



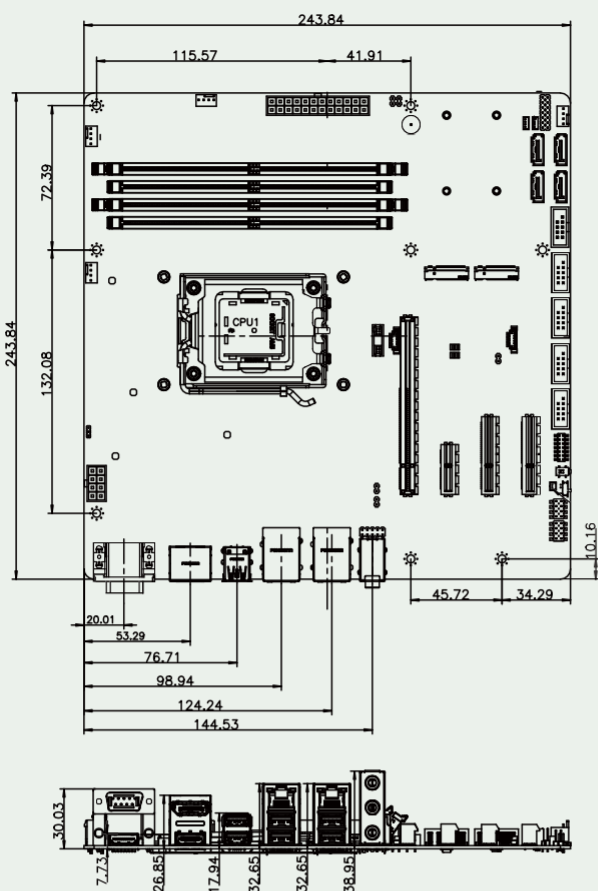
Support Four SATA for Storage

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 IMB-RZ7000
CPU	AMD Socket AM5 for AMD Ryzen™ 7000&8000G PHX1&9000 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 1 x DP (up to 4096x2304@60Hz) 2 x HDMI (up to 4096x2304@30Hz)
Ethernet	LAN1: Intel® I226-V 2.5GbE controller 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) 4 x USB 3.2 Gen1 (Type-A) (5Gb/s) 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) 4 x SATA 6Gb/s 4 x RS-232 (2x5 pin, P=2.54) 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 3 x Audio jacks (line-out, line-in, mic-in) on rear IO 1 x Front audio (2x5 pin)
Front Panel	1 x Front Panel (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 2 x PCIe x4 open-end (Slot3&4) Gen4 (slot3 will disable with Ryzen8000G PHX1) 1 x PCIe x1 (Slot 2, PCIe Gen4 x1 signal) 1 x M.2 M Key (2242/2280, PCIe x4) NVMe support (disable with Ryzen8000G PHX1) 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) & AMD fTPM
FAN connector	1 x CPU fan connector (1x4 pin) 2 x System fan connector (1x4 pin) 1 X PUMP fan connector (1x4 pin)
Chassis Open	1 x Chassis intrusion (1x2 pin)
Power supply	ATX/AT power supply Support AT/ATX mode 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 (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 Information

IMB-AM5-R10	micro-ATX motherboard supports AMD 7000&8000G PHX1&9000 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