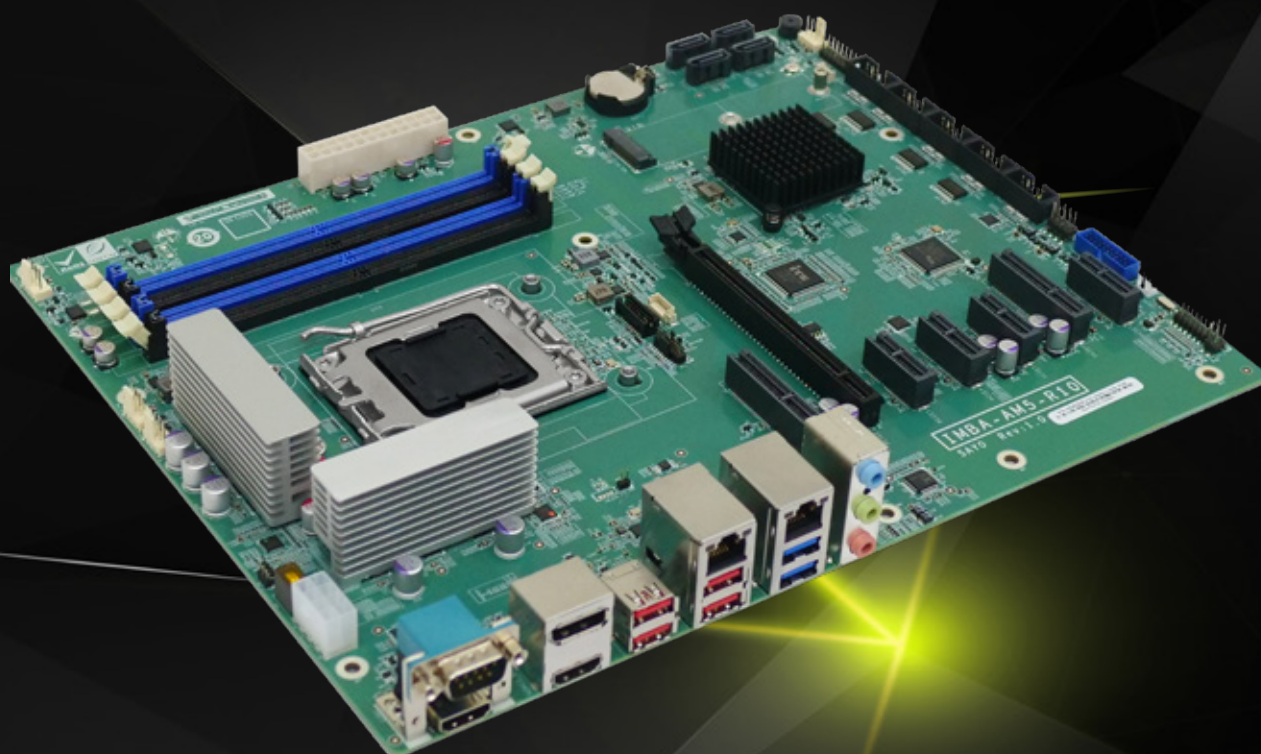


IMBA-AM5

ATX motherboard supports AMD 7000&8000G PHX1 series processor

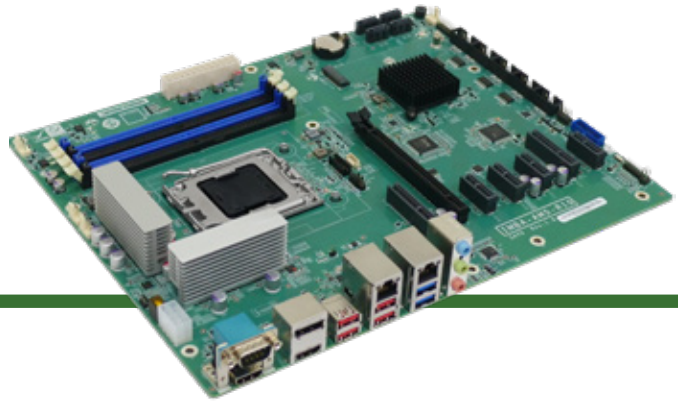
- Four 288-pin 5200 MHz Dual-Channel DDR5 SDRAM, supported up to 192GB
- Triple independent display: 1 x DP 1.4 and 2 x HDMI 1.4
- Support dual Intel® I226-V 2.5GbE controllers
- Support 1 x PCIe Gen4 x16, 2 x PCIe Gen4 x4, 4 x PCIe Gen4 x1 and M.2 M key expansion



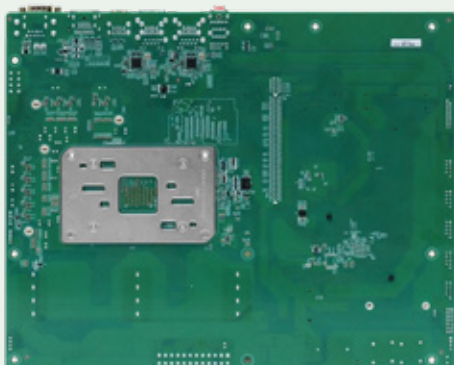
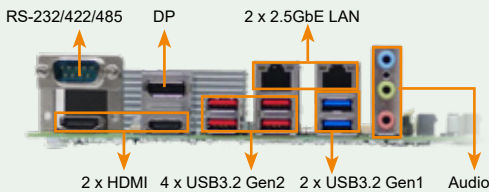
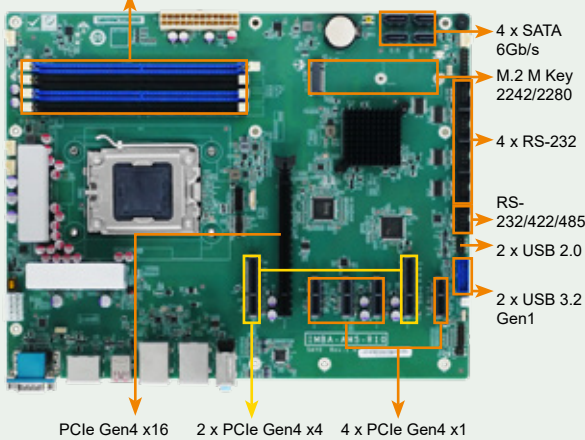
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IMBA-AM5

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 192GB



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)



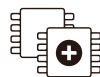
Support Dual-Channel DDR5 SO-DIMMs

Four 288-pin Dual-Channel DDR5 SDRAM Unbuffered DIMMs, supported up to 192GB, Speeds up to 5200MHz



Support Intel® I226-V 2.5GbE Network Controller

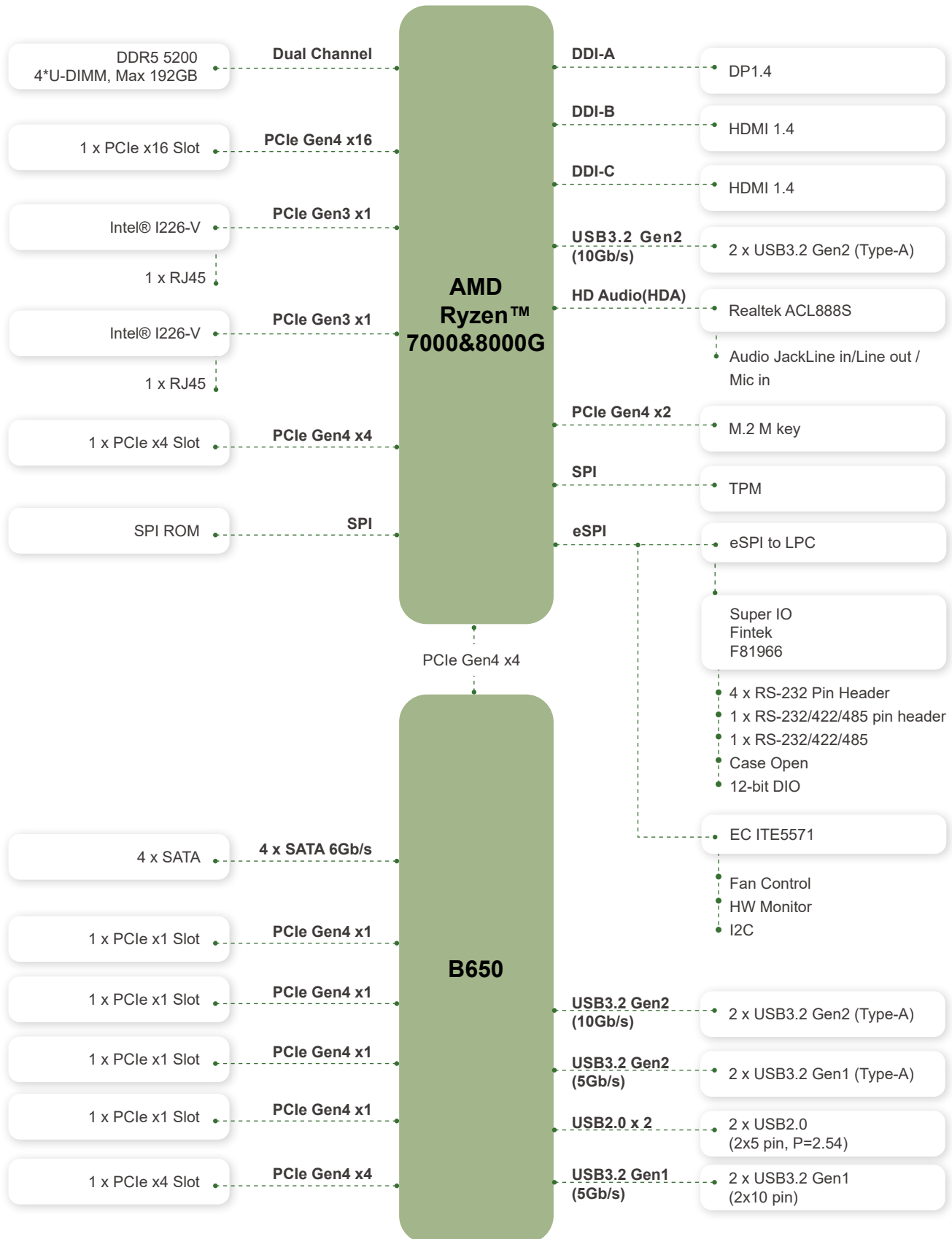
Two RJ45 network ports are provided via Intel® I226-V 2.5GbE network controller to achieve up to 2.5GbE network transmission rate



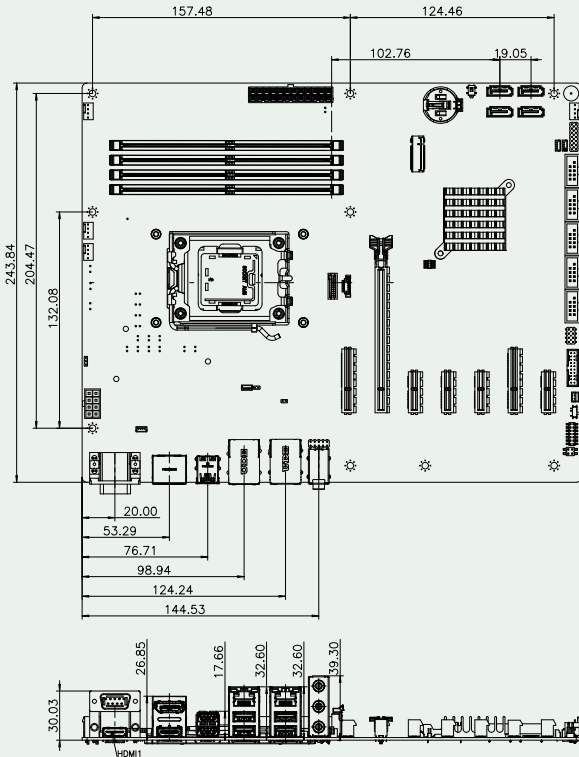
Abundant Expansion Slots

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 192GB
Graphics Engine	Integrated RDNA2 GPU
Display Output	Triple independent display 1 x DP 1.4 (up to 4096x2304@60Hz) 2 x HDMI 1.4 (up to 4096x2304@30Hz)
Ethernet	LAN1: Intel® I226V 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller
External I/O Interface	4 x USB 3.2 Gen2 (Type-A) (10Gb/s) 2 x USB 3.2 Gen1 (Type-A) (5Gb/s) 1 x RS-232/422/485 (RS-485 support AFC)
Internal I/O Interface	2 x USB 2.0 (2x4 pin, P=2.54) 1 x RS-232/422/485 (2x5, P=2.54) (RS-485 support AFC) 2 x USB 3.2 Gen1 (2x10 pin) (5Gb/s) 4 x SATA 6Gb/s (RAID 0/1/10 supported) 4 x RS-232 (2x5 pin, P=2.54)
SMBus	1 x SMBus (1x4 pin)
I ² C	1 x I ² C (1x4 pin)
Audio	Realtek ALC888S HD Audio codec supports 2.1-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 Gen4 x16 (Slot1) with x16 Signal (with Ryzen8000G PHX1 only X8 Signal) 2 x PCIe Gen4 x4 open-end 4 x PCIe Gen4 x1 open-end 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) 1 X PUMP fan connector (1x4 pin) 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 Support AT/ATX mode 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 (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 (45014-0108C0-00-HF)	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
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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