

Advanced Series

**4U**

FORM FACTOR

**2**CPU
SOCKETS**24**

DIMM



ZRS-9220M2

4U Dual AMD CPU Rack Mount GPU Server (Barebone)

REFERENCE NUMBERS

- Barebone Package: ZRS-9220M2
- Chassis: ZS-KR4U832M2
- Motherboard: ZS-MA42PD4A

FEATURES

- **4TH GEN. AMD® EPYC® 9004 SERIES PROCESSORS**
- **DDR5, 24 x RDIMM / RDIMM-3DS DIMM slots**
- **DUAL 1GB/S LAN SUPPORT (RJ45)**
- **OPTIMIZED AIR COOLING 4U RACKMOUNT CHASSIS**
- **10 X PCIE GEN5 EXPANSION SLOTS**

APPLICATIONS

- Transfer AI Training
- AI Fine Tuning
- LLM Training & Inference
- AI Cloud
- GPU Accelerated HPC



DIMENSIONS	820.0mm x 448.4mm x 178.0mm / 32.28 in x 17.65 in x 7.0 in
MOTHERBOARD	PROPRIETARY 430.02mm x 350.01mm / 16.93in x 13.78in (L x W)
CPU	4th Generation AMD® EPYC™ 9004 series Processors AMD® EPYC™ 9004 series Processor support AMD® EPYC™ 9004 series processors with AMD® 3D V-Cache™ Technology up to 360W TDP
SOCKET	2 x LGA 6096 (Socket SP5)
CHIPSET	System on Chip
MEMORY	24 x DDR5 RDIMM / RDIMM-3DS slots RDIMM modules (up to 96GB -2R) RDIMM-3DS modules (up to 512GB - 2S8Rx4) 12-channel per processor 1.1V modules, 4800MHz memory speed
LAN	2 x 1Gbps Intel LAN ports (I350) 1 x Dedicated management port (BMC)
VIDEO	Integrated Aspeed® AST2600 1920x1200@60Hz, DDR4 SDRAM
STORAGE	Max. 32 x SATA-3 6Gbps HDD / SSD ports (4xMICO connectors) - Share with 2xPCIe x16 Slots 2 x M.2 NVMe PCIe Gen3 x4 or SATA-3 6Gbps SSD slot (2280/22110, M-key)
RAID	NA
EXPANSION SLOTS	10 x PCIe 5.0 x16 slots (FH Double width slot) , - Maximum 10 Dual Slot PCIe Gen 4 GPU support
FRONT I/O	12 x, 3.5/2.5-inch, Hot-Pluggable SATA-3 6Gbps Drive Bays (HDD/SSD) or 8 x 3.5/2.5-inch, Hot-Pluggable SATA-3 6Gbps Drive Bays (HDD/SSD) + 4 x U.2 NVMe PCIe Gen 3 SSD drive Bays (Share with one PCIe Gen5 x 16 Slot)
REAR I/O	4 x USB 3.2 Gen1 (USB Type A) 1 x VGA (DB15) 2 x 1Gbps Ethernet ports (RJ45) 1 x Dedicated IPMI Management Port (RJ45 MLAN) 1 x UID button with LED 1 x System Reset Button 2 x HDD / System Fault LEDs 1 x NMI Button
TPM	1 x TPM header with SPI interface Optional TPM 2.0 Module
POWER SUPPLY	2+2 2200W 80+ Platinum redundant power supply
OS COMPATIBILITY	Windows Server 2022 / 2019 (x64) Red Hat Enterprise Linux 9.2 / 9.1 / 9.0 / 8.7 / 8.6 (x64) SUSE Linux Enterprise Server 15SP4 (x64) Ubuntu 22.04.3 / 22.04.2 / 22.04.1 / 22.04 LTS (x64) VMware ESXi 8.0 Update 1 / 7.0 Update 3i Citrix Hypervisor 8.2 LTSR CU1
SYSTEM COOLING	4 x hot plug fans - 80x80x38mm (Max 10,000 rpm with Shock absorber) - Internal 5 x hot plug fans - 80x80x38mm (Chassis rear panel mount) - Optional
OPERATING PROPERTIES	Operating temperature: 10°C to 35°C Operating humidity: 8%-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
CONTENTS	1 x full barebone unit* 4 x A/C power cords
PACKAGE DIMENSIONS	955mm x 620mm x 312mm / 37.60 in x 24.40 in x 12.28 in

*GPU, CPU, CPU Cooler, Memory, Storage, and OS are not included in the barebone system