

AMD 4U 10-GPU Dual-socket Server Specification

1. Product Type

4U 10-GPU rackmount server

2. Product Introduction

The Gooxi AMD dual-socket 4U 10-GPU server utilizes the Gooxi G2DERO-B (PCIe 4.0) motherboard, supporting 2 high-performance AMD EPYC 7003/7002/7001 series processors, 16 DDR4 memory slots, and accommodates up to 10 double-width, full-height, full-length GPU cards. It demonstrates extraordinary capabilities in terms of computational performance, storage expansion, and stability, making it highly suitable for development and applications in emerging fields such as artificial intelligence. It is well-suited for various applications including big data analysis, 3D graphics applications, video decoding, deep learning, scientific computing, etc.

3. Product Features

- ◆ Support 2 high-performance AMD EPYC 7003/7002/7001 series processors
- ◆ Support 16 DDR 4 memory slots
- ◆ Support 10 PCIe 4.0 expansion slots, support 10 double-width, full-height, and full-length GPU cards
- ◆ Rich expansion performance, support 10 single-width half-height half-length PCIe expansion cards

4. Product Pictures



(Product pictures are for reference only, please refer to the actual product)

5. Product Specification

Product Series	ASR4110G-D04R-G2	ASR4110G-D10R-G2
Product Type	4U 10-GPU 4-bay rackmount server	4U 10-GPU 10-bay rackmount server
System Size	790mm*433mm*176.5mm (D*W*H)	
Processor	Support 2 AMD EPYC 7003 Series (Milan) Processors Compatible with AMD EPYC 7002 Series (Rome) and AMD EPYC 7001 Series (Naples)	
Memory	16 DDR4 memory slots, support 2400/2666/2933 DDR4 RECC memory	
Internal Storage Interface	1 M.2 (PCIe x4) interface, 2 MiniSAS HD interfaces	
Hard Drive Bay	Four hot-swappable 3.5/2.5 inch SAS/SATA hard drives in the front, 2 standard 2.5 inch SAS/SATA hard drives in the rear (optional U.2 module), two additional 2.5 inch SAS/SATA or U.2 hard drives in the rear as an option.	10 hot-swappable 2.5 inch SAS/SATA hard drives in the front, 2 standard 2.5 inch SAS/SATA hard drives in the rear (optional U.2 module), two additional 2.5 inch SAS/SATA or U.2 hard drives in the rear as an option.
External Port	Front: 2 USB2.0, 1 power button, 1 reset button, 1 hard drive indicator light, 1 system fault light, 2 network indicator lights.	
	Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 RJ45 gigabit management network port, 2 gigabit RJ45 network port.	
PCIe Expansion	Front : support 10 double-width full-length full-height PCIe 4.0 expansion slots; Note: Can support 8 RTX4090, additional GPU power cables required. Rear: Support 4 half-height PCIe 4.0 x 8 (in PCIe x16 slot), 2 half-height PCIe3.0 x8 (in PCIe x16 slot) and 4 half-height PCIe 4.0 x 16	
Power Supply	Support 1200 W /1300 W /1600 W /2000 W /2 200W CRPS 3+1 redundant power supply (according to actual power adaptation)	
System Fan	8 standard 8038 hot-swappable fans in the center 3 standard 8038 hot-swappable fans in the rear	
IPMI Compatibility	IPMI 2.0	
Management Port	1 dedicated RJ45 management network port	
RoHS	Comply with RoHS2.0	
Working Temperature and Humidity	Temperature 5°C~35°C/humidity 20%~80% RH non-condensing	
Storage Temperature and Humidity	Short-term storage (≤72 H): temperature -40°C~70°C/humidity 20%~90% RH non-condensing (including packaging) Long-term storage (>72 H): temperature 20°C~28°C/humidity 30%~70% RH non-condensing (including packaging)	

* Firmware required to install AMD Milan, Rome or Naples series CPUs

6. Order Information

Type	PN Number	Model	Description
Barebone	0.22.004.0015	ASR 4110G-D04R- G2	Gooxi AMD dual-socket 4U10-GPU 4-bay server barebone, 12Gbps direct-connect 4-bay backplane, standard four 2000W redundant power supply module.
Barebone	0.22.004.0044	ASR 4110G-D10R-G2	Gooxi AMD dual-socket 4U10-GPU 10-bay server barebone, 12Gbps direct-connect 4-bay backplane, standard four 2000W redundant power supply module.

Optional Accessories			
Rear Hard Drive Module	4.00.101.0003	RMC 2112-670 -DM	Including SATA/SAS backplane, 2.5-inch hard drive box, and power cable, excluding SATA cable.
Rear NVMe HDD Module	4.00.101.0012	RMC 2112-675 -DMNV	Including backplane, 2.5-inch hard drive box, high-speed cable, and power cable.
Retimer Card	4.00.312.0081	G0832RT-16X (half-height bracket)	PCIe signal enhancement card, PCIe x16 to 2 SFF 8654 interfaces, including a half-height bracket, used for connecting U.2 modules.
Retimer Card	1.24.222.1002	RM4104G-RT4-16X/PS8926	PCIe 4.0 Retimer card, PCIe x16 gold finger to 2 Slimline ×8 Interface, used to connect the motherboard and GPU expansion board.
Slide Rail	4.00.312.0014	C2907-665-3 -CM	Gooxi L- shaped motherboard series 4U server slide rail, Travel: 790mm
Power Module	3.03.153.0076	GC1200 PMPA	Gooxi 1200W CRPS power module
Power Module	3.03.153.0053	GC1600 PMP	Gooxi 1600W CRPS power module
Power Module	3.03.153.0064	GC2000 PMP	Gooxi 2000W CRPS power module
Power Module	3.03.153.0054	GC2200 PMT	Gooxi 2200W CRPS redundant power supply module
Power Module	3.03.153.1001	DPS-1600AB-13G	Delta 1600W CRPS module
Power Module	3.03.153.0072	DPS-2100BBJ	Delta 2000W power module
RAID Card	3.03.252.0007	LSI 9361-8i (1GB cache)	LSI MegaRAID SAS 9361-8i (1 GB cache) RAID card , onboard 2 SFF 8643 high -speed connectors, support RAID, RAID level 0/1/5/6/10/50/6
RAID Card	3.03.252.0003 —	LSI 9361-8i (2GB cache)	LSI MegaRAID SAS 9361-8i (2 GB cache) RAID card , onboard 2 SFF 8643 high -speed connectors, support RAID , RAID level 0/1/5/6/10/50/6
HBA card	4.00.104.0005	G3008H-PK	LSI SAS 3008 chip, onboard 2 SFF8643 high-speed connectors, support Raid0, 1, 1E and 10
Network Card	4.00.104.0013	G82599-PK	Intel 82599 chip, dual-port 10 Gigabit fiber optic network card
Network Card	4.00.104.0008	G710-PK	Intel XL710 chip, onboard four 10 Gigabit fiber optic ports

The above parameters are subject to change without prior notice (Gooxi reserves the final interpretation rights)