

AMD 4U Single-socket Standard Server Specification

1. Product Type

4U rack server

2. Product Introduction

Gooxi self-developed 4U AMD single-socket standard server, adopts Gooxi G2SERO-B motherboard, standard E-ATX server motherboard, supports one AMD EPYC 7003 (Milan) series, compatible with 7002 (Rome) series and 7001 (Naples) series. 16 DIMM DDR4 memory slots, onboard 1 M.2 port, 2 Gigabit Ethernet ports, 1 RJ45 management network port, 10 PCIe expansion slots, suitable for artificial intelligence, virtualization, cloud computing, big data processing, distributed storage, enterprise market and telecom applications.

3. Features

- ◆ 1 high-performance AMD EPYC 7003/7002/7001 processor
- ◆ 10 PCIe high-speed expansion slots to provide rich expansion performance
- ◆ 5 full-height, double-width high-performance GPU to meet the needs of high computing strength
- ◆ 16 RECC DDR4 memory slots, the maximum frequency supports 2933MHz

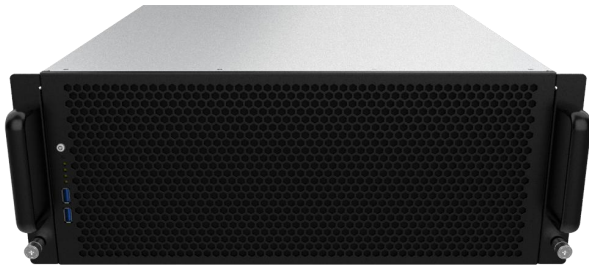
4. Product Pictures



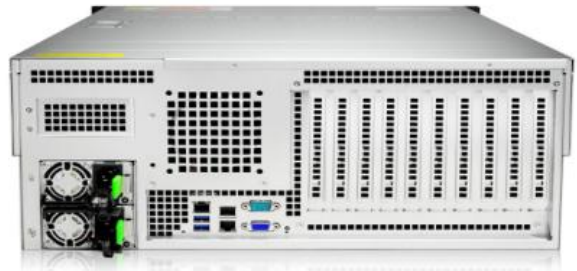
Front View of 4U 24 -bay Model



Front View of 4U 12-bay 5-GPU Cards Model



Front View of 4U 5-GPU Cards Model



Rear View of 4U Model

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

5. Product Parameters

Product series	ASR401-S24RE	ASR4105G-S12R	ASR4105G-S02R
Product type	4U 24-bay	4U 12-bay	4U 2-bay (rear)
Size	695*433*176.5mm (D*W*H)		440*433*176.5mm (D*W*H)
Processor	Support one AMD EPYC 7003 (Milan series); Compatible with AMD EPYC 7002 (Rome series) processors, AMD EPYC 7001 (Naples series)		
Memory	16 DDR4 memory slots, support 2400/2666/2933MHz memory		
Internal storage interface	1 M.2 (PCIe x4) interface, 2 MiniSAS HD ports		
External hard drive	Front 24 hot-swap 3.5/2.5-inch SAS/SATA hard drives; Rear optional one 2x2.5-inch hard drive module	Front 12 hot-swap 3.5/2.5-inch SAS/SATA hard drives; Rear optional one 2x2.5-inch hard drive module	Built-in 2* 2.5-inch SAS/SATA hard drives; Rear 1* 2x2.5-inch hard drive module
External port	Front: 2 USB3.0 Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports		
*PCIE expansion specification	Support 6 PCIe x8 and 4 PCIe x16		
Safety	Support TPM module		
Power supply	Support 550W, 800W, 1200W, 1600W, 2200W hot-swap redundant power supply (adapt according to the actual power)		

Fan	Standard 8* 8038 hot-swap N+1 redundant fans, optional 8* 8056 hot-swap N+1 redundant fans	Standard 3* 12038 fans
IPMI	IPMI2.0	
Management port	1 RJ45 management network port	
Certification	CCC	
RoHS	RoHS 2.0	
Operating temp & humidity	Temperature 5°C~35°C/ Humidity 20%~80%RH non-condensing	
Storage temp & humidity	Short-term storage (≤72H): temperature -40°C~70°C/ humidity 20%~90%RH non-condensing (including packaging) Long-term storage (>72H): temperature 20°C~28°C/ humidity 30%~70%RH non-condensing (including packaging)	

*The corresponding firmware needs to be flashed when installing AMD Milan/Rome/Naples series CPUs

* Optional PCIe 4.0

6. Ordering Information

Type	PN	Model	Description
Barebones	80100321 0.22.004.0321	ASR401-S24RE1 (PCIe 3.0)	Gooxi single-socket AMD platform 4U 24-bay model (PCIe3.0), active backplane, standard 1200W redundant power supply
Barebones	81200018 0.22.004.1013	ASR4105G-S02R	Gooxi single-socket AMD 4U 5 cards of GPU server, standard 2200W redundant power supply
Barebones	0.22.004.0008	ASR4105G-S12R	Gooxi single-socket AMD 4U 5 cards of 12-bay GPU server, standard 2200W redundant power supply

Note: The above barebones are equipped with PCIe 3.0 motherboard unless otherwise specified, and the PCIe 4.0 requires additional configuration

Optional Accessories

PCIe Riser card	22200372L 1.24.223.0372	RMC4124-PCIEIB (PCIe3.0)	Gooxi self-developed PCIe3.0 x16 Riser card
PCIe Riser card	22200372 1.24.222.0372	RMC4124-PCIEIB (PCIe 4.0)	Gooxi self-developed PCIe4.0 x16 Riser card
Rear hard disk module	33120071 4.00.101.0011	RMC2112-695-D M	Gooxi 2U rear 2* 2.5-inch hard disk module, including backplane and 2.5-inch hard disk box, excluding power cord and SATA cable
Rear hard	33120072	RMC2112-675-D	Gooxi 2U rear 2* NVMe hard disk modules,

disk module	4.00.101.0012	M-NV	including backplane, 2.5-inch hard disk box and high-speed cable
Retimer card	33120080 4.00.312.0080	G0832RT-16X (full-height bracket)	PCIe signal enhancement card, PCIe x16 to 2 SFF 8654 interfaces, including full-height bracket
Retimer card	33120081 4.00.312.0081	G0832RT-16X (half-height bracket)	PCIe signal enhancement card, PCIe x16 to 2 SFF 8654 interfaces, including half-height bracket
HBA card	4.00.104.0005	G3008H-PK	Gooxi self-developed LSI 3008 chipset, 12Gb/s SAS card
Network card	4.00.104.0013	G82599-PK	Gooxi self-developed Intel G82599 chip, standard PCIe3.0x8 dual optical port 10G network card
Network card	4.00.104.0008	G710-PK	Gooxi self-developed Intel XL710 chip, standard PCIe3.0x8 network card, 4* 10G optical ports
Fan module	33700016 4.00.370.0016	SL201-FM2	2U barebone fan module, including fan frame/label/rubber nail, and 1* 8056 fan (6PIN terminal, maximum speed 17000±%10RPM)
Fan module	33700017 4.00.370.0017	SL201-FM3	2U barebone fan module, including fan frame/label/rubber nail, and 1* 8056 fan (6PIN terminal, maximum speed 12700±%10RPM)
Guide rail	30100005 1.09.002.0001	C2907-648-3	675mm length
Power module	3.03.153.0052	GC550PMP	Gooxi 550W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0049	GC800PMP	Gooxi 800W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0047	GC1300PMP	Gooxi 1300W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0053	GC1600PMP	Gooxi 1600W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0054	GC2200PMP	Gooxi 2200W CRPS power module, 185x73.x40mm; rated AC voltage 100V-240V, support 240V DC

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