

AMD 4U Dual-Socket High-End Server Specification

1. Product Type

4U rack server

2. Product Introduction

Gooxi 4U AMD dual-socket high-end server, adopts Gooxi self-developed G1DLRO-B motherboard, supports AMD EPYC 7003 (Milan) series, 7002 (Rome) series and 7001 (Naples) series, 32 DIMMs DDR4 memory slots, onboard 2 M.2 ports, 2 Gigabit Ethernet ports, 1 RJ45 management network port, 11 PCIe expansion slots, suitable for virtualization, cloud computing, big data processing, high-performance computing, distributed storage, enterprise market and telecom applications.

3. Product Features

- ◆ 2 high-performance AMD EPYC 7003/7002/7001 series processors
- ◆ 32 RECC DDR4 slots, the maximum frequency supports 3200 MHz
- ◆ Various combinations of PCIe and hard drives
- ◆ Up to 11 PCIe expansions, can support 2 double-width, full-height, full-length GPUs

4. Product Pictures



Front View of 4U 24/36-bay Model



Rear View of 4U 24-bay Model



Rear View of 4U 36-bay Model

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

5. Product Parameters

Product series	SR401-D24RE	SR401-D36RE
Product type	4U 24-bay	4U 36-bay
Size	798*433. 4*176.5 mm (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	32 DDR4 memory slots, support 2666/2933/3200MHz DDR4 memory	
Internal storage interface	4 SATA (2 of which support SATA DOM), 2 M.2 (NVMe) ports, 3 MiniSAS HD ports	
External hard drive	24 hot-swap 3.5/2.5" SAS /SATA hard drives; Rear optional two 2 × 3.5" SAS /SATA or two 2 × 2.5" SAS/ SATA or U.2 hard drives	24+12 hot-swap 3.5/2.5" SAS/SATA hard drives; Rear optional two 2 × 3.5" SAS /SATA or two 2 × 2.5" SAS/ SATA or U.2 hard drives
External port	Front: 2 USB3.0	
	Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 RJ45 Gigabit management network port, 2 Gigabit RJ45 network ports	
PCIe expansion form	Support 6 PCIe full-height slots, 4* PCIe half-height slots, 1* OCP 3.0 card slot	
PCIe expansion specification	Riser1/Riser2: 2 PCIe x 16 or 1* PCIe x 16 + 2* PCIe x 8 or 3* PCIe x8 Riser3: 1* PCIe x 16 or 2* PCIe x8 Riser4: 1* PCIe x 16 or 2* PCIe x8	
Safety	Support TPM module	
Power supply	Support 550W, 800W, 1300W, 1600W, 2 200 W redundant power supply (according to actual power adaptation)	
Fan	Standard 8 8038 hot-plug N +1 redundant fans, optional 8056 hot-plug N +1 redundant fans	
IPMI	IPMI2.0	
Management port	1 dedicated RJ45 management network port	
Certification	CCC	
RoHS	RoHS2.0	
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 (with packaging) Long-term storage (>72H): temperature 20°C~28°C/ humidity 30 %~70 %RH non-condensing (with packaging)	

*Corresponding firmware is required when installing AMD Milan, Rome or Naples series CPUs

*Optional PCIe 4.0

6. Ordering Information

Type	PN	Model	Description
Barebones	80100309 0.22.004.0309	SR401-D24RE	Gooxi dual-socket AMD platform 4U 24-bay model, active backplane, standard 3* PCIe3.0 x8 Riser cards at the rear of the system; standard 800W redundant power supply
Barebones	80100310 0.22.004.0310	SR401-D36RE	Gooxi AMD platform 4U 36-bay model, active backplane, standard 3* PCIe3.0 x8 Riser card at the rear of the system; standard 800W redundant power supply
Note: The above barebones are equipped with PCIe 3.0 motherboard, PCIe 4.0 needs to be equipped separately			
Optional Accessories			
PCIe expansion module	33120104 4.00.312.0104	SL2108-748-PCIe1-M	PCIe3.0x24 to 1* PCIe3.0x16 and 1* PCIe3.0x8, Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	33120106 4.00.312.0106	SL2108-748-PCIe5-M	PCIe3.0x32 to 1* PCIe 3.0x16 and 2* PCIe3.0x8, Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	33120105 4.00.312.0105	SL2108-748-PCIe2-M	PCIe3.0x 24 to 3* PCIe3.0x8, Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	33120135 4.00.312.0135	SL2108-748-PCIe10-M	PCIe 3.0x32 to 2* PCIe 3.0 x16, Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	33120136 4.00.312.0136	SL2108-748-PCIe10-M L	PCIe 3.0x32 to 2* PCIe 3.0 x16, Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	33120125 4.00.312.0125	SL2108-748-PCIe3-M	PCIe 3.0x 16 to 2* PCIe3.0x8, Riser3 (including half-height bracket and adapter board)
PCIe expansion module	33120129 4.00.312.0129	SL2108-748-PCIe6-M	PCIe 3.0x 16 to 1* PCIe 3.0x16, Riser3 (with half-height bracket and adapter board)
PCIe expansion module	33120126 4.00.312.0126	SL2108-748-PCIe4-M	2* Slimline x8 to 2* PCIe3.0x8 (1*x16 SLOT+1* x8 SLOT), Riser4 (including half-height bracket, adapter board and high-speed cable)
PCIe expansion module	33120130 4.00.312.0130	SL2108-748-PCIe7-M	2* Slimline x8 to 1* PCIe3.0 x16, Riser4 (including half-height bracket and adapter board and high-speed cable)
3.5-inch hard disk module	33120055 4.00.101.0008	SL201-3.5-MM	2* 3.5"/2.5" SATA/SAS disk, support SGPIO (including high-speed cable and power supply cable)
2.5-inch hard disk module	33120056 4.00.101.0009	SL201-2.5-MM	2* 2.5" SATA/SAS disk, support SGPIO, hard disk temperature monitoring (including high-speed cable and power supply cable)
U.2 hard drive module	33120075 4.00.101.0013	RM2112-748-DM-NV	2* 2.5" U.2 hard disk, support SGPIO, hard disk temperature monitoring (including high-speed cable and power supply cable)
OCP3.0 network card	22200348 1.23.222.0348	G82599L	Gooxi self-developed OCP3.0 network card, using G82599 chip, dual optical port 10 Gigabit network card
OCP3.0 network card	1.23.222.0417	G710L	Gooxi self-developed OCP3.0 network card, using XL710 chip, four-port 10 Gigabit network 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 port
HBA card	4.00.104.0005	G3008H-PK	Gooxi self-developed LSI 3008 chipset, 12Gb/s SAS card
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, with half-height bracket
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)
GPU power cable	19300219 3.05.193.0219	CN-PDC-Y280-280	Gooxi self-developed high-end server GPU card power supply cable, 280mm/280mm, (8P to 8P+(6+2)P)
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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