

AMD 2U Dual-socket High-end Server Specification

1. Product Type

2U rack server

2. Product Introduction

Gooxi 2U 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 DIMM DDR 4 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 memory 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 GPU cards

4. Product Pictures



Front View of 2U 8-bay Model



Rear View 10 PCIe Slots



Front View of 2U 12-bay Model



Rear View of Rear 2.5-inch Module



Front View of 2U 25-bay Model



Rear View of Rear 3.5-inch Module

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

5. Product Parameters

| Product series | SR201-D08R SR201-D08R-NV | SR201-D12R SR201-D12RE SR201-D12R-NV | SR201-D25RE |
|-------------------------------|---|--|--|
| Product type | 2U 8-bay | 2U 12-bay | 2U 25-bay |
| Size | 748*433.4*87.6 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 them support SATA DOM), 2 M.2 (NVMe) ports, 3 MiniSAS HD interfaces | | |
| External hard drive | Front 8 hot-swap 3.5/2.5-inch SAS/SATA/U.2 hard drives; Rear optional 2* 2 × 3.5-inch SAS/SATA or 2* 2 × 2.5-inch SAS/SATA/U.2 hard drives | Front 12 hot-swap 3.5/2.5-inch SAS/SATA/U.2 hard drives; Rear optional 2* 2 × 3.5-inch SAS/SATA or 2* 2 × 2.5-inch SAS/SATA/U.2 hard drives | Front 25 hot-swap 2.5-inch SAS/SATA hard drives; Rear optional 2* 2 × 3.5-inch SAS/SATA or 2* 2 × 2.5-inch SAS/SATA/U.2 hard drives |
| External port | Front: 1 VGA, 2USB3.0 Rear: 1 VGA, 1 COM port, 2USB3.0, 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 slot | | |
| *PCIe expansion specification | Riser1/Riser2: 2* PCIe x 16 or 1* PCIe x 16, 2* PCIe x 8 or 3* PCIe x8 Riser 3: 1* PCIe x 16 or 2* PCIe x8 Riser4: 1* PCIe x 16 or 2* PCIe x8 | | |
| Safety | TPM module | | |
| Power supply | Support 550W, 800W, 1300W, 1600W, 2200 W redundant power supply (adapt according to actual power) | | |
| Fan | Standard 4* 8038 hot-swap N+1 redundant fans, optional 8056 hot-swap N+1 redundant fans | | |

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|---------------------------|--|
| 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 (≤ 72 H): temperature-40°C~70°C/ humidity 20%~90%RH non-condensing (with packaging) Long-term storage (> 72 H): temperature 20°C~28°C/ humidity 30%~70%RH non-condensing (with packaging) |

*Install AMD corresponding firmware is required for Milan, Rome or Naples series CPUs

*Optional PCIe 4.0

6. Ordering Information

| Type | PN | Model | Description |
|-----------|---------------------------|---------------|--|
| Barebones | 80100297 0.22.002.0297 | SR201-D08R | Gooxi dual-socket AMD platform 2U 8-bay model, passive backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |
| Barebones | 80100353 0.22.002.0353 | SR201-D08R-NV | Gooxi dual-socket AMD platform 2U 8-bay model, NVMe passive backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |
| Barebones | 80100306 0.22.002.0306 | SR201-D12R | Gooxi dual-socket AMD platform 2U 12-bay model, passive backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |
| Barebones | 80100298 | SR201-D12RE | Gooxi dual-socket AMD platform 2U 12-bay model, active backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |
| Barebones | 80100354 | SR201-D12R-NV | Gooxi dual-socket AMD platform 2U 12-bay model, NVMe passive backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |
| Barebones | 80100308 | SR201-D25RE | Gooxi dual-socket AMD platform 2U 25-bay model, active backplane, rear 3* PCIe3.0 x8 Riser cards; standard 550W redundant power supply |

Note: The above barebones are equipped with PCIe3.0 motherboard, PCIe 4.0 needs to be equipped separately

Optional Accessories

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|-----------------------|---------------------------|------------------------|---|
| PCIe expansion module | 33120104 4.00.312.0104 | SL2108-748-PC IE1-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-PC IE5-M | PCIe3.0x32 to 1* PCIe3.0x16 and 2* PCIe3.0x8, Riser1/Riser2 (including full-height bracket and adapter board) |
| PCIe expansion module | 33120105 4.00.312.0105 | SL2108-748-PC IE2-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-PC IE10-M | PCIe3.0x32 to 2* PCIe3.0 x16, Riser1/Riser2 (including full-height bracket and adapter board) |
| PCIe expansion module | 33120136 4.00.312.0136 | SL2108-748-PC IE10-M-L | PCIe3.0x32 to 2* PCIe3.0 x16, Riser1/Riser2 (including full-height bracket and adapter board) |

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| PCIe expansion module | 33120125 4.00.312.0125 | SL2108-748-PC IE3-M | PCIe3.0x 16 to 2* PCIe3.0x8, Riser3 (including half-height bracket and adapter board) |
| PCIe expansion module | 33120129 4.00.312.0129 | SL2108-748-PC IE6-M | PCIe3.0x 16 to 1* PCIe3.0x16, Riser3 (with half-height bracket and adapter board) |
| PCIe expansion module | 33120126 4.00.312.0126 | SL2108-748-PC IE4-M | 2* Slimline x8 to 2* PCIe3.0x8 (1*x16 SLOT+1*x 8 SLOT), Riser4 (including half-height bracket, adapter board and high-speed cable) |
| PCIe expansion module | 33120130 4.00.312.0130 | SL2108-748-PC IE7-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-inch SATA/SAS disk, support SGPIO, hard disk temperature monitoring (including high-speed cable and power supply cable) |
| U.2 hard disk module | 33120075 4.00.101.0013 | RM2112-748-D M-NV | 2* 2.5-inch 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, including 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) |
| Guide rail | 30100020 4.00.312.0004 | C2907-664-3 | Gooxi self-developed L-shaped motherboard 1U/2U/3U server rail, length: 790mm |
| 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 |

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| 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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