# AMD Genoa 2U Dual-Socket High-End Server Specifications

## I Product Type

2U Rackmount Server

## II Introduction

Gooxi AMD Genoa 2U dual-socket high-end server is a widely used 2U dual-socket rack server launched to meet the needs of the Internet, IDC (Internet Data Center), cloud computing, enterprise market and telecommunications business applications. Suitable for IT Core business, cloud computing, virtualization, high-performance computing, distributed storage, big data processing, enterprise or telecommunications business applications and other complex workloads. The server has the advantages of good versatility, low energy consumption, strong scalability, high reliability, easy management, and easy deployment.

## III Features

◆ Supports two high-performance AMD EPYC 9004 (Genoa) series processors

◆ Massive memory, supports 24 DDR5 memory slots

◆ Rich expansion, supports 10 PCIe 5.0 expansion slots

◆ Modular design, multiple combinations of PCIe and hard drive options

## IV Pictures

# Gooxi



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

## V Specifications

| Product series | SR201-D08R-G2<br>SR201-D08R-NV-G2 | SR201-D12R-G2<br>SR201-D12RE-G2<br>SR201-D12R-NV-G2 | SR201-D25RE-G2 |
|---|---|---|---|
| System size | 748 *433.4* 87. 6 mm (depth *width*height) | | |
| Processor | Supports two AMD EPYC 9004 (Genoa) series processors | | |
| Memory | 24 DDR5 memory slots, support 4800 4400 DDR5 RDIMM memory | | |
| Internal storage interface | Onboard 3 MiniSAS SFF-8643 connectors, 2 SATA interfaces, 2 M.2 interfaces (PCIe X4 signal, 2280/22110), 2 slimline x8 (PCIe4.0 x8 signal) interfaces | | |
| Hard drive bay | 8 hot-swappable 3.5 /2.5 -inch SAS/SATA or NVMe hard drives in the front. Optional two 2×2.5-inch SAS/ SATA or NVMe hard drives in the rear. | 12 hot-swappable 3.5/2.5-inch SAS/SATA or NVMe hard drives in the front. Optional two 2×2.5-inch SAS/ SATA or NVMe hard drives in the rear. | 25 hot-swappable 2.5-inch SAS/SATA hard drives in the front. Optional 2 x 2.5-inch SAS/SATA or NVMe hard drives in the rear. |
| External port | Front: 1 VGA, 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 * | Riser 1/Riser2: 1 * PCIe x 16+2* PCIe x 8, 2* PCIe x 16<br>Riser 3: 2*PCIe x 8, 1*PCIe x 16<br>Riser4: 1*PCIe x 16, 2*PCIe x 8<br>OCP: 1*OCP 3.0 | | |
| Power supply | Supports 800W, 1300W, 1600W, 2000W, 2200W hot-swappable redundant power supplies (adapted according to actual power) | | |
| Fan | Standard 4 x 8038 hot-swappable redundant fans, optional 4 x 8056 hot-swappable redundant fans | | |
| IPMI | IPMI2.0 | | |
| Management port | 1 dedicated RJ45 management network port | | |
| Certification | CCC | | |
| RoHS | Comply with RoHS2.0 | | |

**China's Leading Provider of Server Solutions**

| Working temperature and humidity | Temperature 5 ℃～ 35 ℃/humidity 20 %～80%RH non-condensing |
|---|---|
| Storage temperature and humidity | Short-term storage (≤72H): temperature -40℃ ～ 70℃/ humidity 20% ～ 90%RH Non-condensing (including packaging) <br> Long-term storage(>72H) : temperature 20 ℃ ～ 28 ℃/ humidity 30 % ～ 70 %RH Non-condensing (including packaging) |

\* Please consult technical support when using PCIe 5.0 devices.

# VI Order Info

| Type | PN | Model | Description |
|---|---|---|---|
| Barebone | 0.22.002.0018 | SR201-D08R-G2 | Gooxi AMD 2U8 dual-socket high-end standard server barebone system, directly connected to the backplane, equipped with 1 PCIe X16 X8X8 adapter board, 800W redundant power supply |
| Barebone | 0.22.002.0048 | SR201-D08R-NV-G2 | Gooxi AMD 2U8 dual-socket high-end server barebone system NVMe three-mode backplane. Configuration: 1 PCIe X16X8X8 adapter board, 1 PCIe Retimer card, 800W redundant power supply |
| Barebone | 0.22.002.0049 | SR201-D12R-G2 | Gooxi AMD 2U12 dual-socket high-end server barebone system, 12-bay model, directly connected to the backplane. Configuration: 1 PCIe X16X8X8 adapter board, 800W redundant power supply |
| Barebone | 0.22.002.0019 | SR201-D12RE-G2 | Gooxi AMD 2U12 dual-channel high-end standard server barebone system, extended backplane, standard 1 PCIe X16X16 adapter board, standard 800W redundant power supply |
| Barebone | 0.22.002.0050 | SR201-D12R-NV-G2 | Gooxi AMD 2U dual-socket high-end server barebone system, NVMe three-mode backplane. Configuration: 2 PCIe X16X16 adapter boards, 2 PCIe Retimer cards, 800W redundant power supply |
| Barebone | 0.22.002.0051 | SR201-D25RE-G2 | Gooxi AMD 2U dual-socket high-end server barebones, 25-bay model, 12Gb expansion backplane. Configuration: 1 PCIe X16X8X8 adapter board, 800W redundant power supply |

**Optional Accessories**

| | | | |
|---|---|---|---|
| PCIe expansion module | 1.24.224.0014 | RM2U748-PCIEIB1-X16X8X8 | PCIe X16+2*MCIOX8 to 1*X16,2*X8 |
| PCIe expansion module | 1.24.222.0437 | RM2U748-PCIEIB2-X16X16 | PCIe X16+2*MCIOX8 to 2*X16 |
| PCIe expansion module | 1.24.224.0013 | RM2U748-PCIEIB3-X16 | PCIe×16 to 1*X16 |
| PCIe expansion module | 1.24.222.0438 | RM2U748-PCIEIB4-X8X8 | PCIe×16 to 2*X8 |
| PCIe expansion module | 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) |
| 3.5-inch hard drive module | 4.00.101.0008 | SL201-3.5-MM | Gooxi barebone system has a rear 3.5-inch hard drive module, supports two 3.5-inch/2.5-inch SATA/SAS disks, and supports SGPIO (including high-speed |

| | | | cables and power supply cables) |
|---|---|---|---|
| 2.5-inch hard drive module | 4.00.101.0009 | SL201-2.5-MM | Gooxi barebone system has a rear 2.5-inch hard drive module, supports two 2.5-inch SATA/SAS disks, and supports SGPIO (including high-speed cables and power supply cables) |
| 2.5-inch hard drive module | 4.00.101.0013 | RM2112-748-DM-NV | Gooxi barebone system has a rear 2.5-inch NVMe hard drive module and supports two 2.5-inch NVMe disks (including high-speed cables and power supply cables) |
| OCP3.0 network card | 1.23.222.0348 | G82599L | Gooxi self-developed OCP3.0 network card, using G82599 chip, dual optical port 10G network card |
| OCP3.0 network card | 1.23.222.0417 | G710L | Gooxi self-developed OCP3.0 network card, using XL710 chip, four optical port 10G network card |
| Power module | 3.03.153.0047 | GC1300PMP | Gooxi 1300W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, supports 240V DC |
| Power module | 3.03.153.0053 | GC1600PMP | Gooxi 1600W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, supports 240V DC |
| Power module | 3.03.153.0054 | GC2200PMP | Gooxi 2200W CRPS power module, 185x73.x40mm; rated AC voltage 100V-240V, supports 240V DC |
| Power module | 3.03.153.0064 | GC2000PMT | Gooxi 2000W CRPS power module, 185x73.5x39mm; rated AC voltage 100V-240V, supports 240V DC |
| Slide Rail | 4.00.312.0004 | C2907-664-3 | Gooxi L-shaped motherboard series 1U/2U/3U server slide rail, stroke: 790mm |

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