

Specification of AMD 2U Single-Socket Edge Computing Server

1. Product Type

2U rack server

2. Product Introduction

Gooxi self-developed 2U AMD single-socket edge computing server, using the standard E-ATX server motherboard: Gooxi G2SERO-B. The chassis depth is only 450mm, easy to deploy and mount on the shelf. It meets the latest OTII standard, and can be settled in 5G edge computer room, supports 1 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. It can be applied to the needs of telecommunications services, security, big data processing, enterprise market and equipment testing applications.

3. Product Features

- ◆ 1 high-performance AMD EPYC 7003/7002/7001 processor
- ◆ Multi-modular rear window to meet multi-combination needs
- ◆ 10 PCIe high-speed expansion slots to provide rich expansion performance
- ◆ OTII standard, easy to deploy and put on shelves

4. Product Pictures



Front View of Double-Width GPU



Front View of 10 PCIe Slots



Front View of Left-Sideways Double-Width GPU



Front View of Right-Sideways Double-Width GPU



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

5. Product Parameters

Product series	MSR201-S06R
Type	2U 6-bay
Size	450*433*87.5mm (Depth*Width*Height)
Processor	Support 1 AMD EPYC 7003 (Milan series); Compatible with AMD EPYC 7002 (Rome series) processors, AMD EPYC 7001 (Naples series)
Memory	16 DDR4 memory slots, support 2400/2666/2933 memory
Internal storage interface	1 M.2 (PCIe x4) interface, 2 MiniSAS HD interfaces
External hard drive	Support 6* 2.5" SATA/SAS/NVMe hard drives
External port	1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports
*PCIe extension form	Form 1: 2 full-height, double-width + 2 half-height PCIe slots horizontally rotated Form 2: 10 PCIe half-height slots (6 PCIe x8, 4 PCIe x16) Form 3: Horizontally rotated 1 full-height, double-width + 9 half-height PCIe slots

	Form 4: Horizontally rotated 1 full-height, double-width + 3 half-height PCIe slots
Safety	TPM module
Power supply	Support 550W, 800W, 1200W, 1300W, 1600W hot-swap redundant power supply (adapt according to the actual power)
Fan	Standard 4* 8038 hot-swap N+1 redundant fans, optional 4* 8056 hot-swap N+1 redundant fans
IPMI	IPMI2.0
Management port	1 RJ45 management network port
Certification	CCC
RoHS	RoHS 2.0
Operating temperature and humidity	Temperature 5°C~35°C/ humidity 20%~80%RH non-condensing
Storage temperature and humidity	Short-term storage ($\leq 72\text{H}$): temperature -40°C~70°C/ humidity 20%~90%RH non-condensing (including packaging) Long-term storage ($> 72\text{H}$): 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 CPU

* Optional PCIe 4.0

6. Ordering Information

Type	PN	Model	Description
Barebone	81200010 0.22.002.1008	MSR201-S06R-10P	Gooxi 2U AMD single-socket edge computing server system, supports 6*2.5-inch SATA/SAS hard disks (4 hard disk bays), 10*PCIe x16 slots support 10 single-width, half-height GPUs, standard 800W redundant power supply
Barebone	81200011 0.22.002.1009	MSR201-S06R-1GL	Gooxi 2U AMD single-socket edge computing server system, supports 6*2.5-inch SATA/SAS hard disks (4 hard disk bays), and the system supports left-horizontal-rotation 1 double-width GPU (optional 2 single-width, full-height GPUs), 9*single-width, half-height GPUs (x16 slot), standard 800W redundant power supply
Barebone	81200012 0.22.002.1010	MSR201-S06R-1GR	Gooxi 2U AMD single-socket edge computing server system, supports 6*2.5-inch SATA/SAS hard disks (4 hard disk bays), the system supports right-horizontal-rotation 1

			double-width GPU, 4*single-width, half-height GPU (x16 slot), standard 800W redundant power supply
Barebone	81200013 0.22.002.1011	MSR201-S06R-2G	Gooxi 2U AMD single-socket edge computing server system, supports 6*2.5-inch SATA/SAS hard disks (4 hard disk bays), the system supports horizontal-rotation 2 double-width GPUs, 3*single-width, half-height GPUs (x16 slot), standard 800W redundant power supply
Note: The above barebones are all equipped with PCIe 3.0 motherboards, and PCIe 4.0 needs to be equipped separately			
Optional Accessories			
Hard disk module	4.00.101.0022	RMC2106-450-DM2	Gooxi 2U edge chassis hard disk module, supports two 2.5-inch SATA/SAS hard disks, including backplane and 2.5-inch hard disk box, excluding power cord and Sata cord
Hard disk module	4.00.101.0039	RMC2106-450-DM-NV	Gooxi 2U edge chassis hard disk module supports two 2.5-inch NVMe hard disks, including backplane, power cord, high-speed cable and 2.5-inch hard disk box
Motherboard	22200369 1.21.222.0369	G2SERO-B (PCIe 4.0)	Gooxi E-ATX single-socket motherboard, supports 1 full-series AMD7003/7002/7001 CPU, 16*DDR4 ECC memories, 2*MiniSAS interfaces, 1*M.2 interface, onboard 2*Gigabit Ethernet ports, 1* IPMI independent management network port, 1*VGA, 1*serial port, 7 *PCIe4.0, 3* PCIe 3.0
Retimer card	33120080 4.00.312.0080	G0832RT-16X (Full-height baffle)	PCIe signal enhancement card, PCIe x16 to 2 SFF 8654 interfaces, including full-height baffle
Retimer card	33120081 4.00.312.0081	G0832RT-16X (Half-height baffle)	PCIe signal enhancement card, PCIe x16 to 2 SFF 8654 interfaces, including half-height baffle
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
Guide rail	30100005 1.09.002.0001	C2907-648-3	675mm length
Power	3.03.153.0052	GC550PMP	Gooxi 550W CRPS power module,

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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