AMD 1U Single-socket Standard Server Specification

1. Product type

1U rack server

2. Product Introduction

Gooxi self-developed 1U AMD single-socket standard server, using 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 series processor

◆ 16 DIMM DDR4 slots, maximum frequency: 2933 MHz

◆ 2 single-width horizontal expansion slots

4. Product Pictures

Front view of 1U4-bay model   Front view of 1U10-bay model

Note: The product pictures are for reference only, please refer to the actual product

5. Product Parameters

Product series	ASR101-S10R	ASR101-S04R
Product type	1U10	1U4
Size	640*433*43.5mm (D*W*H)	670*433*43.5mm (D*W*H)
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 MHz	
Internal storage interface	1x M.2 (PCIe x4) interface, 2x MiniSAS HD interfaces	
External hard drive	Front 10 hot-swap 2.5-inch SAS/SATA hard drives	Front 4 hot-swap 3.5/2.5-inch SAS/SATA hard drives
External port	Front: 2 USB3.0	
	Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 management network port, 2 RJ45 network ports	
PCIE extension form	Support 2* PCIe full-height, single-width, half-length slots	
Safety	Support TPM module	
Power supply	Support 2* 650W power supply Support 1* 500W power supply	
Fan	Standard 5* 4028 fans, expandable to 6* fans, optional 4056 fan	Standard 4* 4028 fans, expandable to 6* fans, optional 4056 fan
IPMI	IPMI2.0	
Management port	1 RJ45 management network port	
Certification	CCC	
RoHS	RoHS 2.0	
Operating 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) Long-term storage (>72H): temperature 20℃～28℃/ 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

Accessories for ordering			
Barebones	8120029 0.22.001.0029	ASR101-S04R	Gooxi AMD platform 1U 4-bay model, passive backplane, standard power supply: 2* 650W
Barebones		ASR101-S10R	Gooxi AMD platform series 10-bay model, passive backplane, standard power supply: 2*650W
Note: The above barebones are equipped with PCIe 3.0 motherboard, and the PCIe 4.0 needs to be equipped separately			
Optional Accessories			
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 t0 2 SFF 8654 interfaces, including half-height bracket
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
HBA card	22200171T 1.23.222.1001	G3008H	Gooxi self-developed LSI 3008 chipset, 12Gb/s SAS card
Guide rail	30100005 1.09.002.0001	C2907-648-3	675mm length

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