Gooxi Purley 4U Dual-Socket Server Specification

1. Product Type

4U rackmount server

2. Product Introduction

Gooxi Purley 4U dual-socket high-end server, adopts Gooxi **G3DCL-B** motherboard, supports 1st and 2nd generation Intel® Xeon® Scalable series processors, 24 DIMM DDR4 memory slots, 2 onboard M.2 interfaces, 2 Gigabit Ethernet ports, 1 RJ45 management network port, 11 PCIe3.0 expansion slots, suitable for virtualization, cloud computing, big data processing, high-performance computing, distributed storage, enterprise market or telecom application, etc.

3. Product Features

◆ One or two 1st and 2nd generation Intel® Xeon® Scalable processors; TDP is up to 205W

◆ Up to 24 DDR4 slots, memory frequency supports 2400/2666/2933MHz

◆ Motherboard has 2 built-in PCIE 3.0 M.2 ports (size 2280)

◆ Modular design, various combinations of PCIE and hard drives

◆ Up to 11 PCIe expansions to support 2 double-width, full-height, full-length GPUs

4. Product Pictures

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

5. Product Specifications

Product series	SL401-D24RE	SL401-D36RE
Product type	4U24-bay	4U36-bay
System size	748*433.4*176.5mm (D*W*H)	
Processor	Supports one or two 1st and 2nd generation Intel® Xeon® Scalable series processors; TDP is up to 205W	
Memory	24 DDR4 memory slots, support DDR4 LRDIMM/RDIMM 2400/2666/2933 MHz	
Internal storage interface	3 Minis SAS HD interfaces, 2 SATA DOMs, 2 M.2 (NVMe) interfaces	
External hard drive	Front: 24 hot-swap 3.5/2.5-inch SAS/SATA hard drives; and the rear optional supports 2* 2×3.5-inch hard drive modules or 2* 2×2.5-inch hard drive modules	Front 24 + rear 12 hot-swap 3.5/2.5-inch SAS/SATA hard drives; rear optional: 2* 2×3.5-inch hard drive modules or 2* 2×2.5 inch hard drive modules
External port	Front port: 1 VGA, 2 USB 3.0	
	Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 RJ45 Gigabit management network port, 2 Gigabit RJ45 network ports	
*PCIe expansion form	6* PCIe 3.0 full-height slots, 4* PCIe 3.0 half-height slots, 1* OCP 3.0 card	
*PCIe expansion specification	Riser1/2: 1 * PCIe 3.0 x16 + 1* PCIe3.0 x8 or 3* PCIe 3.0 x8 Riser3: 1* PCIe 3.0 x16 or 1* PCIe 3.0 x8 + PCIe 3.0 x8 (PCIe3.0 x16 Slot) Riser4: 1* PCIe 3.0 x16 or 2* PCIe 3.0 x8	
Security	TPM module	
Power supply	AC 220V 550W, 800W, 1300W, 1600W, 2200W redundant power supply (adapt based on the actual power) HVDC 240V ~ 336V 550W, 800W, 1300W LVDC -48V 550W, 800W	
Fan	Standard 8* 8038 hot-swap N+1 redundant fans; optional 8056 hot-swap N+1 redundant fans	
IPMI	IPMI2.0	
Management port	1 dedicated RJ45 management network port	
Certification	CCC	
RoHS	RoHS2.0	
Operating temperature and	Temperature: 5 ℃～35 ℃/ Humidity 20%～80%RH non-condensing	

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humidity	
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)

6. Ordering Information

Type	PN	Model	Description
Barebones	0.11.004.0013	SL401-D24RE	• Gooxi's self-made Purley platform 4U 24-bay model, 12Gb expansion backplane; • supports 24* 3.5/2.5-inch SATA/SAS hard drives, • dedicated L-shaped motherboard supports 2 Intel® Xeon® Scalable Processors (Skylake, Cascade Lake); • each motherboard has onboard 2* Gigabit Ethernet ports, supports 1 standard OCP 3.0 module, independent 1* IPMI management network port; • front 2* USB3.0 interfaces; • 24* DIMM memory slots, support DDR4 RECC memory; • the rear is equipped with 3* PCIe 3.0X8 Riser cards, the maximum can be expanded to 10* PCIe 3.0X8 slots; • the rear IO position can be equipped with 4* 3.5-inch hot-swap hard drives or 4* 2.5-inch hard drive slots; • 2* GPU POWER dedicated power supply interfaces, and 2* M.2 interfaces; • supports platinum efficiency 550W, 800W, 1300W and 1600W modules, 2000W redundant power supply; • system depth 748MM.
Barebones	0.11.004.0014	SL401-D36RE	• Gooxi's self-made Purley platform 4U 36-bay model, 12Gb expansion backplane; • supports 36* 3.5/2.5-inch SATA/SAS hard drives, • dedicated L-shaped motherboard supports 2 Intel® Xeon® Scalable Processors (Skylake, Cascade Lake); • each motherboard has onboard 2* Gigabit Ethernet ports, supports 1 standard OCP 3.0 module, independent 1* IPMI management network port; • front 2* USB3.0 interfaces; • 24* DIMM memory slots, support DDR4 RECC memory; • the rear is equipped with 3* PCIe 3.0X8 Riser cards, the maximum can be expanded to 10* PCIe 3.0X8 slots; • the rear IO position can be equipped with 4* 3.5-inch

			hot-swap hard drives or 4* 2.5-inch hard drive slots; • 2* GPU POWER dedicated power supply interfaces, and 2* M.2 interfaces; • supports platinum efficiency 550W, 800W, 1300W and 1600W modules, 2000W redundant power supply; • system depth 748MM.
Optional Accessories			
PCIe expansion module	4.00.312.0104	SL2108-748-PCIE1-M	PCIe3.0 x24 to 1* PCIe3.0 x16 and 1* PCIe3.0 x8, Riser1/Riser2 (including full-height rack and adapter board)
PCIe expansion module	4.00.312.0105	SL2108-748-PCIE2-M	PCIe3.0 x24 to 3* PCIe3.0 x8, Riser1/Riser2 (including full-height rack and adapter board)
PCIe expansion module	4.00.312.0125	SL2108-748-PCIE3-M	PCIe3.0 x16 to 2* PCIe3.0 x8, Riser3 (1*x16 SLOT+1* x8 SLOT) (including half-height rack and adapter board)
PCIe expansion module	4.00.312.0129	SL2108-748-PCIE6-M	PCIe3.0 x16 to 1* PCIe3.0 x16, Riser3 (including half-height rack and adapter board)
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 rack, adapter board and high-speed cable)
PCIe expansion module	4.00.312.0130	SL2108-748-PCIE7-M	2* Slimline x8 to 1* PCIe3.0 x16, Riser4 (including half-height rack, adapter board and high-speed cable)
3.5-inch hard drive module	4.00.101.0008	SL201-3.5-MM	2* 3.5"/2.5" SATA/SAS drives, support SGPIO (including high-speed cable and power supply cable)
2.5-inch hard drive module	4.00.101.0009	SL201-2.5-MM	2* 2.5 inch SATA/SAS disk, support SGPIO (including high-speed cable and power supply cable)
U.2 hard drive module	4.00.101.0013	RM2112-748-DM-NV	2* 2.5-inch U.2 hard disk, support SGPIO (including high-speed cable and power supply cable)
Guide rail	4.00.312.0004	C2907-664-3	Gooxi self-developed L-shaped motherboard series 1U/2U/3U server rail, length: 790mm
RAID card	3.03.252.0007	LSI 9361-8i (1GB cache)	LSI MegaRAID SAS 9361-8i (1GB cache) RAID card, 8 SATA/SAS internal ports, PCIE3.0X8, data transfer rate 12Gb/s, support RAID, RAID level-0/1/5/6/10/50/60
RAID card	3.03.252.0003	LSI 9361-8i (2 GB cache)	LSI MegaRAID SAS 9361-8i (2 GB cache) RAID card, 8 SATA/SAS internal ports, PCIE3.0X8, data transfer rate 12Gb/s, support RAID, RAID level-0/1/5/6/10/50/60

HBA card	4.00.104.0005	G3008H-PK	Gooxi self-developed LSI 3008 chipset, 12Gb/s SAS card
OCP3.0 network card	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
Retimer card	4.00.312.0080	G0832RT-16X (full-height bracket)	PCIe signal enhancement card, PCIe 3.0 x16 to 2 SFF 8654 ports, including full-height bracket
Retimer card	4.00.312.0081	G0832RT-16X (half-height bracket)	PCIe signal enhancement card, PCIe 3.0 x16 to 2 SFF 8654 ports, with half-height bracket
Fan module	4.00.370.0016	SL201-FM2	2U barebones fan module, including fan frame/label/rubber nail, and 1* 8056 fan (6PIN terminal, maximum speed 17000±%10RPM)
Fan module	4.00.370.0017	SL201-FM3	2U barebones fan module, including fan frame/label/rubber nail, and 1* 8056 fan (6PIN terminal, maximum speed 12700±%10RPM)
GPU power cable	3.05.193.0219	CN-PDC-Y2 80-280	Gooxi self-developed high-end server GPU card power supply cable, 280mm/280mm, (8P to 8P+(6+2)P)