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Gooxi SL401-D24RE-G3 Whitley 4U Dual Socket High-End Server Owner's Manual

Contents

Gooxi SL401-D24RE-G3 Whitley 4U Dual Socket High-End Server

Product Information

- **Product Type:** Gooxi Whitley 4U Dual-Socket High-End Server
- **Product Introduction:** This product is a high-end server designed for rack mount installation.
- **Product Features:** The Gooxi Whitley 4U Dual-Socket High-End Server offers the following features:
    - Multiple product models (24-bay and 36-bay)
    - Dual-socket configuration
    - Supports DDR4 memory
    - Multiple internal storage options
    - Hot-swappable hard drive modules
    - Front and rear ports for connectivity
    - PCIe expansion slots for additional functionality
    - Optional TPM module for enhanced security
    - Redundant power supply options
    - IPMI2.0 management support
    - Certified with CCC, CE, FCC, and ROHS standards
    - Operating temperature range: 5°C to 35°C; Humidity range: 20% to 80% RH non-condensing
    - Storage temperature range: -40°C to 70°C; Humidity range: 20% to 90% RH non-condensing (short-term storage) and 30% to 70% RH non-condensing (long-term storage)

Product Usage Instructions

Installation

1. Select a suitable rack mount location for the server.
2. Ensure that the power supply and cooling requirements of the server are met.
3. Place the server in the rack and secure it properly using the appropriate mounting brackets.
4. Connect the power supply to the server.
5. Connect any necessary external devices (e.g., monitor, keyboard, mouse) to the server's ports.

Configuration

1. Power on the server using the power button.
2. Access the server's BIOS settings by pressing the appropriate\ key during startup (refer to the user manual for the specific key).
3. Configure the BIOS settings according to your requirements (e.g., boot order, memory settings).
4. If necessary, install any additional hardware components (e.g., memory modules, expansion cards) following the provided instructions.

Operation

1. Once the server has booted up, you can access the operating system or management interface depending on your configuration.
2. Monitor the server's performance and ensure that it is functioning properly.
3. Perform any necessary maintenance tasks (e.g., updating firmware, backing up data) regularly.

Shutdown

1. Safely shut down the operating system running on the server.

2. Press and hold the power button until the server powers off completely.

3. Disconnect the power supply from the server.

Note: For more detailed instructions and information, please refer to the user manual provided with the product.

Product Type
4U rack mount server

Product Introduction

Gooxi Whitley 4U dual-socket high-end standard server, using Gooxi G4DCL-B motherboard, supports 1 or 2 Gen3 Intel® Xeon® Scalable series processors, 32 DIMM DDR4 memory slots, on-board 2* M.2 interfaces, 2 Gigabit LAN ports, 1 RJ45 management LAN port, 11 PCIe3.0/PCIe4.0 expansion slots. Fits virtualization, cloud computing, big data processing, high-performance computing, distributed storage, enterprise market and telecom applications

Product Features

- 1 or 2 Gen3 Intel® Xeon® Scalable, up to 270W TDP
- Up to 32 DDR4 slots, frequency 2400/ 2666/ 2933/ 3200 MHz
- 2 built-in NVMe PCIe 4.0 M.2 ports
- Modular design, various combinations of PCIe and hard drives
- Up to 11 PCIe expansions, supporting 2 double-width, full-height, full-length GPU

Product Pictures

Front View of 4U 24-bay Model

Rear View of 4U 24-bay Model

Front View of 4U 36-bay Model

Rear View of 4U 36-bay Model

Product Parameters

Product series	SL401-D24RE-G3	SL401-D36RE-G3
Product type	4U 24-bay	4U 36-bay
System size	798*433.4*176.5mm (D*W*H)	
Processor	1 or 2 Gen3 Intel® Xeon® Scalable Series processors, TDP up to 270W	
Memory	32 DDR4 memory slots, support DDR4 LRDIMM/RDIMM 2400/2666/2933/3200 MHz	
Internal storage interface	3 Minis SAS HD interfaces, 2 SATA DOM interfaces, 2 NVMe PCIe 4.0 M.2 ports (size 2280)	
External hard drive	Front 24* hot-swap 3.5/2.5-inch SAS/SATA hard drives; Rear optional 2* 2×3.5-inch hard disk modules and 2* 2×2.5-inch hard disk modules	Front 24 and rear 12 hot-swap 3.5/2.5-inch SAS/SATA hard drives; Rear optional 2* 2×3.5-inch hard drive modules and 2* 2×2.5-inch hard disk modules
External port	Front port: 2 USB3.0	
	Rear: 1 VGA, 1 COM port, 2 USB3.0, 1 RJ45 Gigabit management LAN port, 2 Gigabit RJ45 LAN ports	
*PCIe expansion form	6* PCIe full-height slots , 4* PCIe half-height slots, 1* OCP 3.0 slot	
*PCIe expansion specification	Riser1: 1*full-height PCIe 4.0 x16, 2*full-height PCIe 4.0 x8 2*full-height PCIe 4.0 x16 Riser2: 1*full-height PCIe 4.0 x16, 2*full-height PCIe 4.0 x8 2*full-height PCIe 4.0 x16 Riser3: 1*half-height PCIe 4.0 x16 1*half-height PCIe 3.0 x8, 1*half-height PCIe 3.0 x8 (in x16 Slot) Riser4: 1*half-height PCIe 3.0 x8, 1*half-height PCIe 3.0 x8 (in x16 Slot) OCP: 1*OCP 3.0 (PCIe 3.0 x8)	
Security	Optional TPM module	
Power supply	Supports AC 220V 550W, 800W, 1300W, 1600W, 2000W, 2200W redundant power supply (adapt based on the actual power)	
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 LAN port
Certification	CCC, CE, FCC, ROHS
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)

Ordering Information

Type	PN	Model	Description
Barebone	0.21.004.0078	SL401-D24RE-G3	Gooxi dual-socket Whitley platform 4U 24-bay model, SATA/SAS extended version, standard 800W 1+1 redundant power supply
Barebone	0.21.004.0080	SL401-D36RE-G3	Gooxi dual-socket Whitley platform 4U 36-bay model, SATA/SAS extended version, standard 800W 1+1 redundant power supply
Optional Accessories			
PCIe expansion module	4.00.312.0159	SL2112-748-PCIE13-M	PCIe 4.0×32 to 1*PCIe 4.0×16 and 2*PCIe 4.0×8 , Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	4.00.312.0160	SL2112-748-PCIE14-M	PCIe 4.0×32 to 2*PCIe 4.0×16 , Riser1/Riser2 (including full-height bracket and adapter board)
PCIe expansion module	4.00.312.0158	SL2112-748-PCIE12-M	PCIe 4.0×16 to 1*PCIe 4.0×16 , Riser3 (including half-height bracket and adapter board)

PCIe expansion module	4.00.312.0125	SL2108-748-PCIE3-M	PCIe3.0x16 to 2*PCIe3.0x8, Riser3 (1*x16 SLOT+1*x8 SLOT) (including half-height bracket and adapter board)
PCIe expansion module	4.00.312.0155	SL2108-748-PCIE4-M1	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 disk module	4.00.101.0008	SL201-3.5-MM	2*3.5-inch/2.5-inch SATA/SAS disk, support SGPIO (including high-speed cable and power supply cable)
2.5 inch HDD module	4.00.101.0009	SL201-2.5-MM	2*2.5 inches 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	3.11.001.0009	40-790	Three-section pull-out tool-free guide rail, with a full extension length of 794mm, supports 1m-1.2m cabinets, and the load capacity of the guide rail is 45KG
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 (2GB 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 PCIe3.0x 8 dual-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	4.00.312.0131	SL2108-748-PCIE8P-QM	PCIe signal enhancement module, PCIe 4.0 x16 to 2 SFF 8654 interfaces, including full-height block
Retimer card	4.00.312.0132	SL2108-748-PCIE8P-IM	PCIe signal enhancement module , PCIe 4.0 x16 to 2 SFF 8654 interfaces, including half-height block
Fan module	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	4.00.370.0017	SL201-FM3	2U barebone fan module, including fan frame/label/rubber nail, and one 8056 fan (6PIN terminal, maximum speed 12700±%10RPM)
GPU power supply cable	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)
Power module	3.03.153.0052	GC550PMP	Gooxi 550W CRPS power module, 185×73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0049	GC800PMP	Gooxi 800W CRPS power module, 185×73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0047	GC1300PMP	Gooxi 1300W CRPS power module, 185×73.5x39mm; rated AC voltage 100V-240V, support 240V DC
Power module	3.03.153.0053	GC1600PMP	Gooxi 1600W CRPS power module, 185×73.5x39mm; rated AC voltage 100V-240V, support 240V DC

Power module	3.03.153.0054	GC2200PMT	Gooxi 2200W CRPS power module, 185×73.x40mm; rated AC voltage 100V-240V, support 240V DC

Documents / Resources

Gooxi SL401-D24RE-G3 Whitley 4U Dual Socket High-End Server [pdf] Owner's Manual
SL401-D24RE-G3 Whitley 4U Dual Socket High-End Server, SL401-D24RE-G3, Whitley 4U Dual Socket High-End Server, Dual Socket High-End Server, Socket High-End Server, High-End Server, Server

References

- **User Manual**