

Gooxi Birch Stream 2U Dual-Socket High-End Server Specifications

I Product Type

2U rackmount server

II Introduction

Gooxi Birch Stream 2U dual-socket high-end server, supports 1 or 2 6th Gen (SP) Intel® Xeon® Scalable processors, up to 32 DDR5 DIMM slots, 2 M.2 interfaces, 1 RJ45 management port, and 12 PCIe 5.0 expansion slots. Designed for virtualization, cloud computing, big data processing, high-performance computing, distributed storage, enterprise markets, and telecom applications.

III Product Features

- ◆ Supports 1 or 2 6th Gen Intel® Xeon® Scalable processors, up to 86 cores / 172 threads, with a maximum TDP of 350W
- ◆ Up to 32 DDR5 memory slots, supporting DDR5 RDIMM-3DS/RDIMM 6400 MHz modules
- ◆ Onboard 2 M.2 NVMe interfaces
- ◆ Modular design with flexible combinations of PCIe and drive configurations
- ◆ Up to 12 PCIe 5.0 expansion slots, optional support for 2 dual-width, full-height, full-length GPU cards

IV Pictures



[Front View of 2U 12-Bay Model](#)



Rear View of 2U 12-Bay Model

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

V Specifications

Product Series	SL201-D12R-NV-G5
Form Factor	2U 12-Bay Dual-Socket High-End Server
Processor	Supports 1 or 2x 6th Gen Intel® Xeon® Scalable Processors, up to 86 cores / 172 threads, TDP up to 350W
Memory	32x DDR5 DIMM slots, supports DDR5 RDIMM-3DS/RDIMM 6400 MHz memory
Internal Storage Interface	2x NVMe M.2 SSD slots
External Hard Drive	Front: Supports 12 hot-swap 3.5"/2.5" SAS/SATA/U.2 drives Rear (Optional): Supports 2× 2×2.5" hot-swap drive modules
External Ports	Front Ports: 1x VGA, 2x USB 3.0
	Rear Ports: 1x VGA, 1x COM, 2x USB 3.0, 1x RJ45 GbE Management Port
PCIe Expansion Form Factor	6x Full-Height PCIe slots, 4x Half-Height PCIe slots, 2x OCP 3.0 slots

PCIe Expansion Specifications	<p>Riser1/2:</p> <ul style="list-style-type: none"> ◆ 1x Full-Height PCIe 5.0 x16, 2x Full-Height PCIe 5.0 x8 ◆ 2x Full-Height PCIe 5.0 x16 <p>Riser3/4:</p> <ul style="list-style-type: none"> ◆ 2x Half-Height PCIe 5.0 x8 ◆ 1x Half-Height PCIe 5.0 x16 OCP: <p>2x OCP 3.0 (PCIe 5.0 x16; OCP1 default x8, upgradeable to x16 via cable; OCP2 default x16)</p>
OS	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu, VMware ESXi, etc.
Security	Supports TPM 2.0 module, chassis intrusion alarm, BMC/BIOS redundancy
Power Supply	Supports dual AC 220V power supply modules in 800W, 1300W, 1600W, 2000W, 2200W, or 2600W configurations; hot-swap and 1+1 redundancy supported
Fan	Standard 4x Hot-Swap N+1 Redundant Fans, supports 8038/8056 fan specifications
IPMI	Supports Redfish, SNMP, IPMI 2.0 standard interfaces
Management Port	1x Dedicated RJ45 Management Port
Dimension	799*433.4*87.6mm(D * W * H)
Operating Temperature	Temperature: 5°C to 35°C / Humidity: 20% to 80% RH (non-condensing)
Storage Temperature & Humidity	Short-term storage (≤ 72 H): Temperature -40°C to 70°C / Humidity 20% to 90% RH (non-condensing, with packaging)
	Long-term storage (> 72 H): Temperature 20°C to 28°C / Humidity 30% to 70% RH (non-condensing, with packaging)

VI Order Information

Type	PN	Model	Description
Barebone	0.21.002.0531	SL201-D12R-NV-G5	Gooxi Dual-Socket Birch Stream Platform 2U 12-Bay System, supports SATA/SAS/U.2 System Configuration: 1× PCIe 5.0 x16 + 2× PCIe 5.0 x8, 1300W redundant power supply.

Optional Accessories			
PCIe Expansion Module	4.00.312.0182	SL2112-799-PCIE1-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebones System. 2U-799 Chassis with Full-Height PCIe Expansion Module (including 2U PCIe full-height bracket and adapter board: PCIe 5.0 x32 to 2 x16), supports 2 dual-width x16 cards (with high-speed signal cables, installed in Riser1 and I/O Module 1 positions).
PCIe Expansion Module	4.00.312.0183	SL2112-799-PCIE1-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebones System. 2U-799 chassis with full-height PCIe expansion module (including 2U PCIe full-height bracket and PCIe 5.0 x32 to 2 x16 adapter board), supports 2 dual-width x16 cards (with high-speed signal cables, installed in Riser1 and I/O Module 2 positions).
PCIe Expansion Module	4.00.312.0184	SL2112-799-PCIE1-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebones System. 2U-799 chassis with full-height PCIe expansion module (includes 2U full-height PCIe bracket and PCIe 5.0 x32 adapter board converting to 1 x16 + 2 x8 slots), equipped with high-speed signal cables, installed in Riser2 and I/O Module 1 positions.
PCIe Expansion Module	4.00.312.0185	SL2112-799-PCIE1-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebone System. 2U-799 chassis with full-height PCIe expansion module (includes 2U full-height PCIe bracket and PCIe 5.0 x32 adapter converting to 1 x16 + 2 x8 slots), equipped with high-speed signal cables, installed in Riser2 and I/O Module 2 positions.

PCIe Expansion Module	4.00.312.0186	SL2112-799-PCIE3-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebone System. 2U-799 chassis with half-height PCIe expansion module (includes 2U half-height PCIe bracket and PCIe 5.0 x16 adapter converting to 1 x16 slot), equipped with high-speed signal and power cables, installed at Riser3 and I/O Module 3 positions.
PCIe Expansion Module	4.00.312.0187	SL2112-799-PCIE3-G3-M	Gooxi Nebula 5 Self-Developed L-Type Server 2U Barebone System. 2U-799 chassis with half-height PCIe expansion module (includes 2U half-height PCIe bracket and PCIe 5.0 x16 adapter converting to 1 x16 slot), equipped with high-speed signal and power cables, installed at Riser3 and I/O Module 4 positions.
PCIe Expansion Module	4.00.312.0188	SL2112-799-PCIE4-G3-M	Gooxi self-developed 2U-799 chassis half-height PCIe expansion module (includes 2U PCIe half-height bracket and adapter board PCIe 5.0 x16 to 2 x8) (includes high-speed cables and power cables, riser4 installed in IO module 3 position, IO module 4 position only supports rear 2.5-inch hard drive module).
PCIe Expansion Module	4.00.312.0192	SL2112-799-PCIE4-G3-M	Gooxi self-developed 2U-799 chassis half-height PCIe expansion module (includes 2U PCIe half-height bracket and adapter board PCIe 5.0 x16 to 2 x8) (includes high-speed cables and power cables, riser4 installed in IO module 3 position, IO module 4 position supports riser3 or riser4).
PCIe Expansion Module	4.00.312.0189	SL2112-799-PCIE4-G3-M	Gooxi Nebula 5 self-developed L-shaped server 2U barebone system 2U-799 chassis half-height PCIe expansion module (includes 2U PCIe half-height bracket and

			adapter board PCIe 5.0 x16 to 2 x8, includes high-speed cables and power cables, installed at riser4, IO module 4 position).
M.2 Expansion Module	4.00.101.0085	RM2112-PCIEIB5-G3-M	Gooxi self-developed 2U-799 chassis M.2 expansion module (includes M.2 board and cables).
2.5-inch Drive Module	4.00.101.0082	SL201-2.5-DM	Gooxi Nebula 5 self-developed L-type server 2U barebones rear 2.5-inch hard drive module, supports 2×2.5-inch SATA/SAS drives, SGPIO, and green LED indicators (includes backplane power cable).
2.5-inch Drive Module	4.00.101.0083	RM2112-799-DM-NV	Gooxi Nebula 5 self-developed L-type server 2U barebones rear 2.5-inch hard drive module, includes MCIO high-speed cable, supports 2×2.5-inch U.2 hard drives (includes power and signal cables).
OCP 3.0 Network Card	1.23.222.0348	G82599L	Gooxi self-developed OCP 3.0 network card with G82599 chip, dual 10G optical ports.
OCP 3.0 Network Card	1.23.222.0417	G710L	Gooxi self-developed OCP 3.0 network card with XL710 chip, quad 10G optical ports.
Network Card	3.03.252.0041	E810XXVDA2	Ethernet 800 Series network card, PCIe 4.0 dual-port 25G SFP28 network card.
Network Card	4.00.104.0008	G710-PK	Gooxi self-developed Intel XL710 chip-based standard PCIe 3.0 x8 network card, 4×10G optical ports
Power Module	3.03.153.0049	GC800PMP	Gooxi 800W CRPS Power Module, 185 × 73.5 × 39 mm; rated AC voltage 100V–240V, supports 240V DC.
Power Module	3.03.153.0047	GC1300PMP	Gooxi 1300W CRPS Power Module, 185 × 73.5 × 39 mm; rated AC voltage 100V–240V, supports 240V DC.
Power Module	3.03.153.0053	GC1600PMP	Gooxi 1600W CRPS power module, 185 × 73.5 × 39 mm; rated AC voltage: 100V–240V, supports 240V DC.

Power Module	3.03.153.0064	GC2000PMT	Gooxi 2000W CRPS power module, 185 × 73.5 × 39 mm; rated AC voltage: 100V–240V, supports 240V DC.
Power Module	3.03.153.0054	GC2200PMT	Gooxi 2200W CRPS power module, 185 × 73.5 × 39 mm; rated AC voltage: 100V–240V, supports 240V DC.
Power Module	3.03.153.0075	GC2600PMT	Gooxi 2600W CRPS power module, 185 × 73.5 × 39 mm; rated AC voltage: 100V–240V, supports 240V DC.
Slide Rail	3.11.001.0007	40-940	Three-section ball-bearing slide rail, full extension length 850 mm, compatible with 1 m–1.2 m racks, load capacity 45 kg.

(The final interpretation right belongs to Gooxi)