

# S251-300-IBC1

## 2U UP 26-Bay Immersion Server



### Features

- Single-Phase Immersion Ready Server
- 2nd Gen. Intel® Xeon® Scalable Processors
- Intel® Xeon® W-3200 Processor Family
- 6-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- Supports Intel® Optane™ Persistent Memory
- Dual 1Gb/s LAN ports (Intel® I210-AT)
- 1 x Dedicated management port
- 24 x 3.5" SAS/SATA hot-swappable HDD/SSD bays
- 2 x 2.5" SATA hot-swappable HDD/SSD bays
- 1 x Ultra-Fast M.2 and with PCIe Gen3 x4 bandwidth
- 7 x PCIe Gen3 low profile expansion slots
- 1+1 1300W 80 PLUS Platinum redundant power supply

### Specification

<b>Dimensions</b>	2U (W438 x H87 x D880 mm)	<b>Backplane I/O</b>	Left Side: CBPD2C0: 12 x 3.5" SAS/SATA ports with expander Right Side: CBPD2C1: 12 x 3.5" SAS/SATA ports Rear Side: CBPD020: 2 x 2.5" NVMe/SATA hybrid ports
<b>Motherboard</b>	MU71-SU0	<b>TPM</b>	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010
<b>CPU</b>	2nd Generation Intel® Xeon® Scalable Processors Intel® Xeon® W-3200 Processor Family 1 x LGA 3647, Socket P	<b>Power Supply</b>	1+1 1300W 80 PLUS Platinum redundant power supply AC Input: 100-240V
<b>Chipset</b>	Intel® C621 Express Chipset	<b>System Management</b>	Aspeed® AST2500 management controller GIGABYTE Management Console (AMI MegaRAC SP-X)
<b>Memory</b>	6-channel DDR4 memory, 8 x DIMM slots RDIMM/LRDIMM modules up to 128GB supported Supports Intel® Optane™ Persistent Memory (PMem) 1.2V modules: 2933/2666/2400/2133 MHz	<b>OS Compatibility</b>	Windows Server 2012 R2 with Update / 2016 / 2019 RHEL 7.6 (x64) / 8.0 (x64) or later SLES 12.3 (x64) / 15 (x64) or later Ubuntu 18.04 LTS (x64) / 20.04 LTS (x64) VMware ESXi 6.0 Update3 / 6.5 / 6.7 / 7.0 or later Citrix XenServer 7.1.0 CU2 / 7.5.0 / 8.0.0 or later
<b>LAN</b>	2 x 1Gb/s LAN ports (Intel® I210-AT) 1 x 10/100/1000 management LAN	<b>System Fans</b>	N/A
<b>Video</b>	Integrated in Aspeed® AST2500 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM	<b>Operating Properties</b>	Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
<b>Storage</b>	Side-accessed: 24 x 3.5" SAS/SATA hot-swap HDD/SSD bays LSI SAS35x36R expander SAS card is required to enable 24 drive bays Rear Side: 2 x 2.5" SATA hot-swap HDD/SSD bays NVMe supported with optional CNV3022 NVMe card Default supports: 2 x SATA drives in rear side Recommend optional SAS cards: CRA4448, CSA4648	<b>Packaging Content</b>	1 x S251-300 1 x CPU heatsink 2 x Non-Fabric CPU carrier
<b>RAID</b>	Depends on RAID card	<b>Reference Numbers</b>	Barebone: 6NS25130O0MR000IBC1* - Motherboard: 9MU71SU0NR-00 - CPU heatsink: 25ST1-353105-T1R - Back plane board_12-port_L_Side: 9CBPD2C0NR-00 - Back plane board_12-port_R_Side: 9CBPD2C1NR-00 - Back plane board_2-port_rear_Side: 9CBPD020NR-00 - Power supply: 25EP0-213007-F3S - Optional 2-port NVMe card : 9CNV3022NR-00 - Optional 12Gb/s SAS H/W RAID card : 9CRA4448NR-00 - Optional 12Gb/s SAS S/W RAID card : 9CSA4648NR-00
<b>Expansion Slots</b>	3 x PCIe x16 (Gen3 x0 or x8) low-profile slots 3 x PCIe x16 (Gen3 x16 or x8) low-profile slots 1 x PCIe x4 (Gen3 x4) slot 1 x M.2 slot (M-key, PCIe Gen3 x4, supports NGFF-2280)		
<b>Front I/O</b>	2 x USB 3.2 Gen1		
<b>Rear I/O</b>	4 x USB 3.2 Gen1, 1 x VGA, 1 x COM, 2 x RJ45, 1 x MLAN		



Learn more about GIGABYTE server solutions, visit [www.gigabyte.com/Enterprise](http://www.gigabyte.com/Enterprise)

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