

G593-SX1-LAX1

HPC/AI Server - 5th/4th Gen Intel® Xeon® Scalable - 5U DP AMD Instinct™ MI300X 8-GPU DLC



Specification

| | | | |
|---|---|-----------------------|---|
| Dimensions | 5U (447 x 219.7 x 945 mm) | Modular GPU | Liquid-cooled 8 x AMD Instinct™ MI300X OAM GPUs |
| Motherboard | MSB3-G41 | PCIe Expansion Slots | 4 x FHHL PCIe Gen5 x16 8 x LP PCIe Gen5 x16 |
| CPU | 5th Generation Intel® Xeon® Scalable Processors 4th Generation Intel® Xeon® Scalable Processors Intel® Xeon® CPU Max Series Dual processor, TDP up to 350W | I/O Ports | Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN (default) Rear: 1 x MLAN |
| OS Compatibility | | | PCIe Gen5 x4 or SATA 6Gb/s or SAS-4 24Gb/s |
| Socket | 2 x LGA 4677 (Socket E) | TPM | 1 x TPM header (SPI), Optional TPM2.0 kit: CTM010 |
| Chipset | Intel® C741 | Power Supply | 4+2 3000W 80 PLUS Titanium redundant power supplies AC Input: 115-240V *The system power supply requires C19 power cord. |
| Memory | 8-Channel DDR5 RDIMM, 32 x DIMMs [5th Gen Intel Xeon] Up to 5600 MT/s (1DPC), 4400 MT/s (2DPC) ^[1] [4th Gen Intel Xeon] Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC) [Intel Xeon Max Series] Up to 4800 MT/s (1DPC), 4400 MT/s (2DPC) | System Fans | Motherboard: 2 x 40x40x28mm / 3 x 60x60x56mm PCIe slots: 4 x 40x40x28mm / 2 x 40x40x56mm GPU tray: 4 x 80x80x80mm |
| [1] 5600 MT/s support under 2DPC configuration requires verified memory and BIOS setup. | | | Operating Properties Operating: 10°C to 30°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing) *To ensure system stability and prevent condensation, when the relative humidity exceeds 50%, the coolant inlet temperature must be higher than the dry-bulb temperature and it should not exceed 45°C. |
| LAN | Front: 2 x 10Gb/s LAN (1 x Intel® X710-AT2), Support NCSI 1 x 10/100/1000 Mbps Management LAN Rear: 1 x 10/100/1000 Mbps Management LAN | Packaging Content | 1 x G593-SX1-LAX1 6 x Carriers 1 x L-shape Rail kit |
| Video | Integrated in ASPEED® AST2600 - 1 x VGA port | Ordering Part Numbers | 6NG593SX1DR000LBX1* |
| Storage | Front hot-swap: 8 x 2.5" Gen5 NVMe/SATA/SAS-4 ^[1] [1] SAS card is required to support SAS drives. | | |
| RAID | Intel® SATA RAID 0/1/10/5 Support optional RAID add-in cards | | |

Learn more at: <https://www.gigabyte.com/Enterprise>

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