

# Datasheet

## 2U Intel Single-CPU RI1208-SMXS+ Server

[Ver. 3.0]

### Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4410Y, can be equipped with a CPU (Intel Xeon Scalable 4th/5th Gen (Sapphire/Emerald Rapids)) up to 60 cores
- Incl. 16 GB RAM, upgradeable up to 1.536TB RAM, (16 DIMMs)
- 8x 3.5" / 2.5" (Hot-swap) up to 245.76 TB, SSDs: 245.76 TB
- Optional additional drives: 2x 2.5" (Internal, non-hot-swap)
- Expandable with 7 LP/ HL/ FL add-on card(s), 7x PCIe 5.0 x16
- Energy-efficient power supply 80 PLUS Platinum (>94%) red. NT (opt.)
- Integrated IPMI (dedicated NIC)



### Mainboards

Manufacturer	Gigabyte
Mainboards	MS33-AR1
Chipset	Intel C741
Socket	Intel LGA 4677
Processor	Intel Xeon Scalable 4th/5th Gen (Sapphire/Emerald Rapids)
Main Memory	16 DIMMs 1.5 TiB DDR5 4800/4400/5600 RDIMM
LAN Onboard	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Broadcom BCM57416
Onboard graphic	1x VGA ASPEED AST2600 BMC 2 GiB

Onboard graphics maximum resolution	1920x1200@60Hz
Additional card (optional)	PNY NVIDIA RTX A1000 (8GB)
USB ports	2x USB (rear) 2x USB 3.2 Gen1 2x USB on board (type A)

## Extension-slots for additional cards

PCI slots (mainboard)	7x PCIe 5.0 x16
Available slots in the chassis	7x Low profile/Half Length/Full Length

## Onboard ports

SATA-3 (6 Gb/s)	18x SATA-3 (6 Gbit/s)
M.2	1 x M.2 PCIe 3.0 x4
M.2 form factor	2280, 22110
NVMe	4x NVMe onboard

## Drives / storage capacity

Drive slots (total)	8x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Internal, non-hot-swap)
Backplane	SATA / SAS-3 (12 Gb/s)
Max. capacity HDD (SAS)	245.76 TB
Max. capacity HDD (SATA)	192 TB
Max. capacity SSD (SATA)	61.44 TB
Max. capacity SSD (SATA)	245.76 TB

## Server management

Management software	GIGABYTE Management Console
Remote management	Integrated IPMI (dedicated NIC)

## Chassis

Unit	2U
Dimensions	89 mm (H), 437 mm (W), 647 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	1x Slim CD/DVD/DVD-R External USB-drives
Fan (center)	3x 80x80x38mm Hot-swap (7000rpm, 53.5dBA)
Silent blowerkit option	no

## Power supply

Power supply unit	1x 600 Watt Netzteil (80plus Platinum)
energy efficiency	92.48%
PMBus support	Yes, Ver.1.2

## Rack Assembly

Assembly rails	contained in the scope of supply
rail length	675-880 mm
Total length server front to end of assembly rail	820 mm
Max. extraction length	670 mm
Recommended maneuvering space	75 mm (minimum)

## environment-requirements

Recommended ambient temperature	20 - 22 degree
Recommended humidity	max. 40%
Recommended deployment location	To ensure the optimal cooling of the system, we recommend running the server in an air conditioned server room and as part of a rack installation. The server is not ideal for use in an office environment due to its high noise levels.