

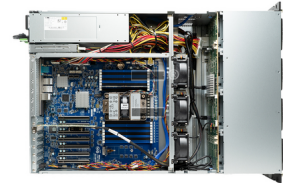
# Datasheet

## 4U Intel Single-CPU RI1436-AIXS+ Server

[Ver. 1.0]

### Highlights at a glance:

- Incl. 1x Intel Xeon Silver 4410Y, can be expanded to up to 1x CPUs of the 4th Scalable generation (8 - 60 cores)
- Incl. 16 GB RAM, upgradeable up to 1.536TB RAM, (16 DIMMs)
- 36x 3.5" / 2.5" (Hot-swap) up to 1.10592 PB, SSDs: 1.10592 PB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- SAS-3 (12Gbit/s) expander backplane
- 10GBase-T dual-port on board LAN (optional)
- Expandable with 5 LP/ FL add-on card(s), 7x PCIe 5.0 x16
- Energy-efficient power supply red. NT
- 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	5x

## 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)	36x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	36x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	1.10592 PB
Max. capacity HDD (SATA)	864 TB
Max. capacity SSD (SATA)	276.48 TB
Max. capacity SSD (SATA)	1.10592 PB

## Server management

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

## Chassis

Unit	4U
Dimensions	174.3 mm (H), 430 mm (W), 680 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	External USB-drives
Fan (center)	6 80x80x38mm Hot-swap (10500rpm, 60dBA)
Silent blowerkit option	no
Front USB ports	2

## Power supply

PMBus support	Yes, Ver.1.2
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## Rack Assembly

Assembly rails	contained in the scope of supply
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## 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.