Datasheet

4U Intel Single-CPU RI1424-AIXS+ Server

[Ver. 2.0]

Highlights at a glance:

- Incl. 1x Intel Xeon 6505P, can be equipped with a CPU (Intel Xeon 6) up to 144 cores
- Incl. 16 GB RAM, upgradeable up to 768GB RAM, (8 DIMMs)
- 24x 3.5" / 2.5" (Hot-swap) up to 576 TB, SSDs: 368.64 TB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- Expandable with 4 LP/ FL add-on card(s), 4x PCIe 5.0 x16 1x PCIe 5.0 x8
- SAS-3 (12Gbit/s) expander backplane
- Energy-efficient power supply red. NT
- Integrated IPMI (dedicated NIC)

Mainboards

Manufacturer	Gigabyte
Mainboards	MS04-CE0
Chipset	Intel System on Chip
Socket	Intel LGA 4710
Processor	Intel Xeon 6
Main Memory	8 DIMMs 768 GiB DDR5 4800/4400/5600/6400 RDIMM

LAN Onboard	2 x 1 GBit/s LAN (RJ-45)
LAN chipset	Intel I210-AT
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	4x USB (rear) 4x USB 3.2 Gen1 0x USB on board (type A)

Extension-slots for additional cards

PCI slots (mainboard)	1x PCIe 5.0 x8 4x PCIe 5.0 x16
Available slots in the chassis	4x

Onboard ports

SATA-3 (6 Gb/s)	12x SATA-3 (6 Gbit/s)
M.2	2 x M.2 PCI-E 5.0 x2
M.2 form factor	2280, 22110

Drives / storage capacity

Drive slots (total)	24x 3.5" / 2.5" (Hot-swap) 2x 2.5" (Rear, hot-swap)
SAS / SATA slots	24x SAS / SATA
Backplane	SATA / SAS-3 (12 Gb/s) expander backplane
Max. capacity HDD (SAS)	576 TB
Max. capacity HDD (SATA)	576 TB
Max. capacity SSD (SATA)	184.32 TB
Max. capacity SSD (SATA)	368.64 TB

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)	3 120x120x25mm Hot-swap (,)
Silent blowerkit option	no
Front USB ports	2

Power supply

PMBus support	Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply

environment-requirements

Recommended ambient temperature	20 - 22 degree
Recommended humidity	10 - 90% (noncondensing)
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.