

# Datasheet

## 4U Intel Single-CPU R11424-AIXE Server

[Ver. 1.0]

### Highlights at a glance:

- Incl. Intel Pentium G7400, can be equipped with a CPU (Xeon E-2400 (Raptor Lake-E)) up to 8 cores
- Incl. 16 GB RAM, upgradeable up to 128GB RAM, (4 DIMMs)
- 24x 3.5" / 2.5" (Hot-swap) up to 737.28 TB, SSDs: 737.28 TB
- Optional additional drives: 2x 2.5" (Rear, hot-swap)
- Expandable with 2 LP/ FL add-on card(s), 1x PCIe 5.0 x16
- 10GBase-T dual-port on board LAN (optional)
- SAS-3 (12Gbit/s) expander backplane
- Energy-efficient power supply red. NT
- Integrated IPMI (dedicated NIC)



## Mainboards

Manufacturer	ASUS	ASUS
Mainboards	ASUS P13R-M	ASUS P13R-M/10G-2T
Chipset	Intel C262	Intel C262
Socket	Intel LGA 1700 - Server	Intel LGA 1700 - Server
Processor	Xeon E-2400 (Raptor Lake-E)	Xeon E-2400 (Raptor Lake-E)
Main Memory	4 DIMMs 128 GiB DDR5 4400/4800 ECC Unbuffered	4 DIMMs 128 GiB DDR5 4400/4800 ECC Unbuffered
LAN Onboard	2 x 1 GBit/s LAN (RJ-45)	2x 10 Gbit/s LAN (RJ-45)
LAN chipset	Intel i210AT	Intel X710-AT2

LAN Onboard (dedicated IPMI)	1x Management LAN	1x Management LAN
Onboard graphic	1x VGA ASPEED AST2600 BMC	1x VGA ASPEED AST2600 BMC
Additional card (optional)	PNY NVIDIA RTX A1000 (8GB)	PNY NVIDIA RTX A1000 (8GB)
Onboard Input/Output	USB (no PS2 ports!) 1x TPM Header	USB (no PS2 ports!) 1x TPM Header
USB ports	3x USB (rear) 3 x USB 3.2 Gen2  1x USB on board (type A) (USB 3.0)	3x USB (rear) 3 x USB 3.2 Gen2  1x USB on board (type A) (USB 3.0)

## Extension-slots for additional cards

PCI slots (mainboard)	1x PCIe 4.0 x4 (in x8) 1x PCIe 5.0 x16	1x PCIe 4.0 x4 (in x8) 1x PCIe 5.0 x16
Available slots in the chassis	2x	2x

## Onboard ports

SATA-3 (6 Gb/s)	8x SATA-3 (6 Gbit/s) Intel C262 RAID 0, 1, 10, 5, Software-Raid	8x SATA-3 (6 Gbit/s) Intel C262 RAID 0, 1, 10, 5, Software-Raid
M.2	1 x M.2 PCIe 3.0 x4	1 x M.2 PCIe 3.0 x4
M.2 form factor	2242, 2260, 2280	2242, 2260, 2280

## 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)	737.28 TB
Max. capacity HDD (SATA)	576 TB
Max. capacity SSD (SATA)	184.32 TB
Max. capacity SSD (SATA)	737.28 TB

## Server management

Management software	ASUS Control Center (Classic)
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.