

Datasheet

1U Intel single-CPU RI1104-SMXEH server

[Ver. 2.0]

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)
- 4x 3.5" / 2.5" (Hot-swap) up to 122.88 TB, SSDs: 122.88 TB
- 2 x 1 GBit/s LAN (RJ-45)
- Expandable with 1 FP/LP/ HL additional card(s), 1 x PCIe 4.0 (x16)
- Energy-efficient power supply 80 PLUS Platinum (>94%) red. NT (opt.)
- 503 mm (D) installation depth saves space
- 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	1x Full profile/Half Length	1x Full profile/Half Length
Possible Riser cards	1x PCI-E (x16) riser card	1x PCI-E (x16) riser card

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)	4x 3.5" / 2.5" (Hot-swap)
Backplane	SATA / SAS-3 (12 Gb/s)
Max. capacity HDD (SAS)	122.88 TB
Max. capacity HDD (SATA)	96 TB
Max. capacity SSD (SATA)	30.72 TB
Max. capacity SSD (SATA)	122.88 TB

Server management

Management software	ASUS Control Center (Classic)
Remote management	Integrated IPMI (dedicated NIC)

Chassis

Unit	1U
Dimensions	43 mm (H), 437 mm (W), 503 mm (D),
drives (in scope of delivery)	not contained, optional available
Drives (optional)	1x Slim CD/DVD/DVD-R External USB-drives
Fan (center)	4x 40x40x28mm non-hot-swap (17500rpm, 57.5dBA)
Silent blowerkit option	no

Power supply

Power supply unit	1x 350 Watt Netzteil (80plus Platinum)
energy efficiency	92.51%
PMBus support	PSU single: no, redundant PSU: Yes, Ver.1.2

Rack Assembly

Assembly rails	contained in the scope of supply
rail length	660 - 845 mm
Total length server front to end of assembly rail	705 mm
Max. extraction length	710 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.