

RESX07-4U21F

21" Deep, Front I/O Rugged Rack Server

Low-latency,
high-throughput
rugged rack server

- Dual Intel® 3rd generation Xeon® Scalable processors up to 32 cores
- Designed, tested and manufactured in the U.S.
- Configurable - up to 13 expansion slots that support 10 NVIDIA A100 GPUs
- NVMe storage – up to 16 E1.L SSDs



TECHNICAL SPECIFICATIONS

Dual Intel 3rd generation Xeon Scalable processors

3 UPI links up to 11.2 GT/s

32 DIMM slots, up to 4,096 GB DDR4-3200 MHz

Intel Trusted Execution Technology (TXT) with integrated TPM 2.0

Management and Operating System

Windows, Linux OS

Contact factory for OpenBMC

IPMI 2.0 management

Expansion and Modular Maintainability

Up to 13 expansions slots:

- Slot 1: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 2: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 3: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 4: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 5: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 6: PCIe gen 4.0 single-width x16 FHFL, up to 12" w/ FIO

- Slot 7: PCIe gen 4.0 single-width x16 FHFL, up to 12" w/ FIO
- Slot 8: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 9: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 10: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 11: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 12: PCIe gen 4.0 single-width x16 FHFL, up to 12" w/ FIO
- Slot 13: OCP 3.0 PCIe gen 4.0 x16 w/ FIO

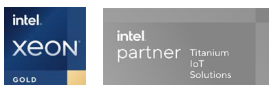
Up to 8, 2.5" SATA/SAS drives (U.2 option available) or 16 E1.L NVMe storage drives

Up to 2 NVMe M.2 slots

Power Supply Options

Dual-redundant (2+2) AC power option:
2000 W per PSU 120V AC/240 VAC,
4000 W total with redundancy
(240 VAC only)

Partnering with



Environmental*

Operating

Temperature: 0°C to 50°C, configuration dependent

Humidity: 5% - 95%, non-condensing

Shock: 3 axis, 35 g, 25 ms

Vibration: 4.7 Grms vertical, 4.5 Grms longitudinal, 5 Hz to 2000 Hz

Non-Operating

Temperature: -40°C to 70°C, configuration dependent

Humidity: 5% to 95%, non-condensing

Additional Options

Shock pins

Slide rails

Cable accessories

Mechanical

Height: 4U or 7" (177.8 mm)

Width: 17.26" (438.4 mm)

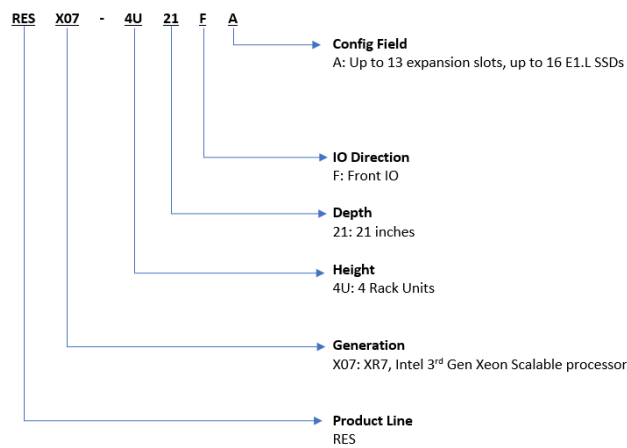
Depth: 20.73" (526.5 mm) from front to back, 20" (508 mm) from ear to back

Weight (Typical)*: 48 lb

19" rackmountable

* Mercury Systems designs all products to meet or exceed listed data sheet specifications. Some specifications including I/O profiles, weight and thermal profiles are configuration dependent. Contact Mercury for information specific to your desired configuration requirements.

Product Naming Chart



Front View



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