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RESX07-1U21R
21" Deep, Rear 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 4 expansion slots
- Storage – up to 8, 2.5" SSDs

TECHNICAL SPECIFICATIONS

Dual Intel 3rd generation Xeon Scalable processors

3 UPI links up to 11.2 GT/s

16 DIMM slots, up to 2,048 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 4 expansions slots:

- Slot 1: PCIe gen 4.0 single-width x16 FH, up to 6.8" length w/ RIO
- Slot 2: PCIe gen 4.0 single-width x16 FH, up to 6.8" length w/ RIO
- Slot 3: OCP 3.0 gen 4.0 x16 w/ RIO
- Slot 4: OCP 3.0 gen 4.0 x16 w/ RIO

Up to 8, 2.5" SATA/SAS drives (U.2 option available)

1 NVMe M.2 slots

Power Supply Options

Single or Redundant 100/240 V VAC (47/63 Hz, 400 Hz)

Single or Redundant 10-36 VDC, 32 Amps

Single or Redundant 36-72 VDC, 18 Amps

MIL-STD 461

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
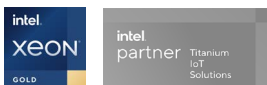
Humidity: 5% to 95%, non-condensing

Additional Options

Shock pins

Slide rails

Cable accessories

Partnering with

intel XEON GOLD

intel partner — Titanium IoT Solutions

NVIDIA PREFERRED PARTNER

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Mechanical

Height: 1U or 1.75" (44.45 mm)

Width: 17.06" (433.32 mm)

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

Weight (Typical)*: 23 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.
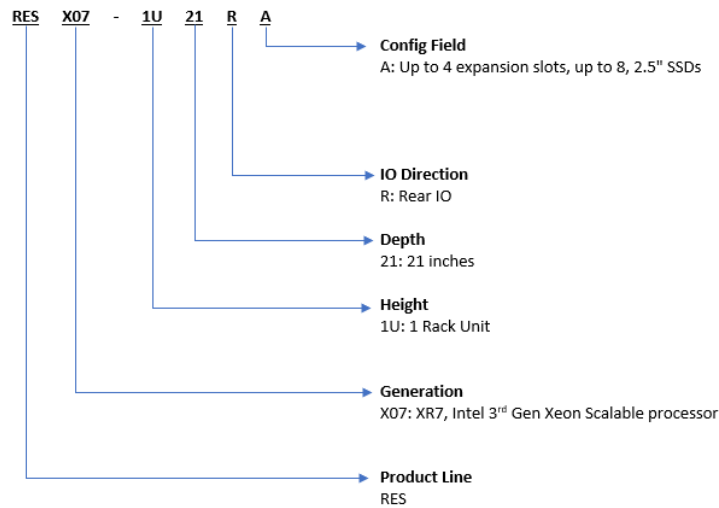
Front View

Rear View

Product Naming Chart

RES X07 - 1U 21 R A

Config Field
A: Up to 4 expansion slots, up to 8, 2.5" SSDs

IO Direction
R: Rear IO

Depth
21: 21 inches

Height
1U: 1 Rack Unit

Generation
X07: XR7, Intel 3rd Gen Xeon Scalable processor

Product Line
RES

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Learn more

Visit: mrcy.com/servers

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MADE IN USA

LIFETIME WARRANTY