

# RESX07-3U22R

## 22" 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 7 expansion slots that support 4 NVIDIA A100 GPUs
- Storage – up to 16, 2.5" SSDs



### TECHNICAL SPECIFICATIONS

Dual Intel 3rd generation Xeon Scalable processors

3 UPI links up to 11.2 GT/s

20 DIMM slots, up to 2,560 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 7 expansions slots:

- Slot 1: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO
- Slot 2: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO
- Slot 3: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO
- Slot 4: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO
- Slot 5: PCIe gen 4.0 single-width x16 FHFL, up to 7.5" w/ RIO
- Slot 6: PCIe gen 4.0 single-width x16 FHFL, up to 7.5" w/ RIO

- Slot 7: PCIe gen 4.0 single-width x8 FHHL, up to 7.5" w/ RIO

Up to 16, 2.5" SATA/SAS drives (U.2 option available)

Up to 2 NVMe M.2 slots

### Power Supply Options

Triple-redundant (2+1) AC and DC options:

- 1600 W 48 VDC per PSU
- 800 W 28 VDC per PSU
- 1600 W 120 VAC per PSU
- 240 VAC per PSU
- MIL-461 options: 3x MIL-STD 750 W 120 VAC, 28 VDC 500 W

### Environmental\*

#### Operating

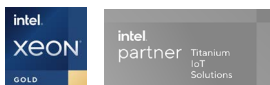
Temperature: 0°C to 50°C, configuration dependent

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

Partnering with



**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: 3U or 5.25" (133.35 mm)

Width: 17.36" (440.9 mm)

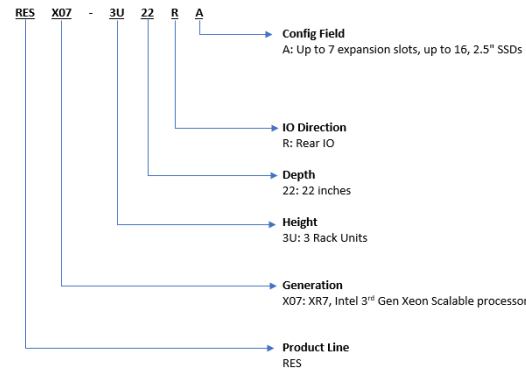
Depth: 22" (558.8 mm) from front to  
back, 21" (533.4 mm) from ear to back

Weight (Typical)\*: 35 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



Rear View



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