

# RESX07-1U22R

## 22" Deep, Rear I/O Rugged Rack Server

Low-latency,  
high-throughput rugged  
rack server

- Dual Intel® 3rd generation Xeon® Scalable processors up to 36 cores
- Designed, tested and manufactured in the U.S.
- Configurable - up to 6 expansion slots that support 1 NVIDIA A100 GPU
- NVMe storage - up to 8 E1.L 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 6 expansions slots:

- Slot 1: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO (*Only available on 1U22RA*)
- Slot 2: PCIe gen 4.0 single-width x16 FHFL, up to 7.5" w/ no IO (*Only available on 1U22RA*)
- Slot 3: PCIe gen 4.0 single-width x16 FHFL, up to 7.5" w/ FIO
- Slot 4: PCIe gen 4.0 single-width x16 HHFL, up to 7.0" w/ RIO
- Slot 5: PCIe gen 4.0 single-width x8 HHFL, up to 7.5" w/ RIO

- Slot 6: OCP3.0 PCIe gen 4.0 x16 w/ RIO

Up to 4, 2.5" SATA/SAS drives (U.2 option available) or 8 E1.L NVMe storage drives

Up to 4 NVMe M.2 slots

#### Power Supply Options

Non-redundant AC and DC power options:

- 1000 W 120 VAC
- 1300 W 240 VAC
- 1000 W 48 VDC
- 750 W 28 VDC

#### Environmental\*

##### Operating

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

Humidity: 5% - 90%, up to 50°C, 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 90%, up to 50°C, non-condensing

Partnering with



RESX07-1U22R

**Additional Options**

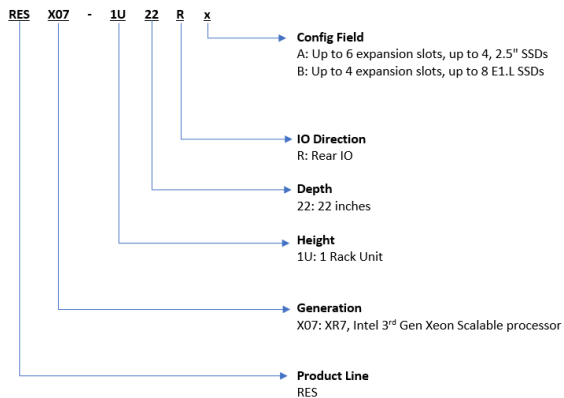
- Shock pins
- Slide rails
- Cable accessories

**Mechanical**

- Height: 1U or 1.75" (44.45 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)\*: 27 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**



**RESX07-1U22RA**



Front View



Rear View

**RESX07-1U22RB**



Front View



Rear View



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