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RESX07-2U22R
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 6 expansion slots that support 3 full-size GPUs
- 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

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

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
- Slot 2: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO *(x8 electrical on RESX07-2U22RA)*
- Slot 3: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ RIO *(Not available on RESX07-2U22RA)*
- Slot 4: PCIe gen 4.0 single-width x16 HHHL, up to 7.5" w/ RIO
- Slot 5: PCIe gen 4.0 single-width x16 HHHL, x8 electrical, up to 7.5" w/ RIO
- Slot 6: OCP3.0 PCIe gen 4.0 x16 w/ RIO

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

Up to 2 M.2 slots

Power Supply Options

Dual-redundant (1+1) AC and DC power options:

- 1000 W 48 VDC per PSU
- 800 W 28 VDC per PSU
- 1200 W 120 VAC per PSU
- 1600 W 240 VAC per PSU
- 240 VAC per PSU
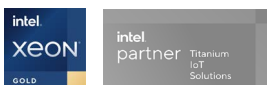- MIL-461 options: 2x MIL-STD 750 W 120 VAC, 28 VDC 500 W

Environmental*

Rugged Level 1 Standards

Additional Options

Shock pins

Slide rails

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Mechanical

Height: 2U or 3.5" (88.9 mm)
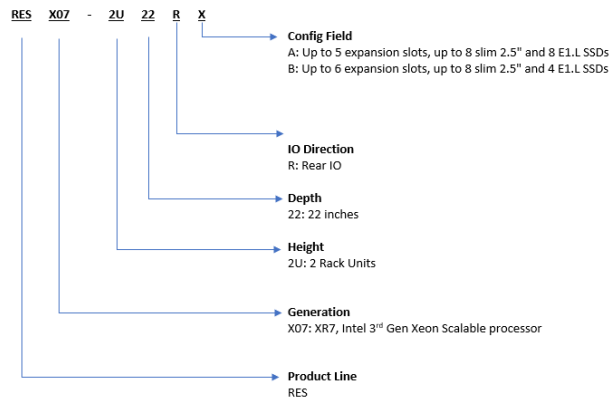
Width: 17" (431.8 mm)

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

Weight (Typical)*: 37 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

RES X07 - 2U 22 R X

Config Field
A: Up to 5 expansion slots, up to 8 slim 2.5" and 8 E1.L SSDs
B: Up to 6 expansion slots, up to 8 slim 2.5" and 4 E1.L SSDs

IO Direction
R: Rear IO

Depth
22: 22 inches

Height
2U: 2 Rack Units

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

Product Line
RES

Front View

Rear View

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Corporate Headquarters

50 Minuteman Road
Andover, MA 01810 USA
+1 978.967.1401 tel
+1 866.627.6951 tel
+1 978.256.3599 fax

**International Headquarters
Mercury International**

Avenue Eugène-Lance, 38
PO Box 584
CH-1212 Grand-Lancy 1
Geneva, Switzerland
+41 22 884 51 00 tel

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Visit: mrcy.com/servers
Contact: servers@mrcy.com

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