mercury

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 full-size 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

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 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 FHHL, up to 7.5" w/ RIO
- Slot 6: PCIe gen 4.0 single-width x16 FHHL, 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:

- 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
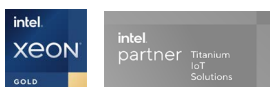- MIL-461 options: 3x MIL-STD 750 W 120 VAC, 28 VDC 500 W

Environmental*

Rugged Level 1 Standards

Additional Options

Shock pins

Slide rails

Partnering with

intel XEON GOLD

intel partner Titanium IoT Solutions

NVIDIA PREFERRED PARTNER

mercury

Mechanical

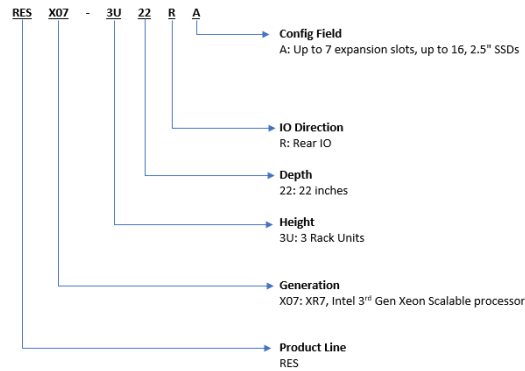Height: 3U or 5.25" (133.35 mm)

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

RES   X07   -   3U   22   R   A

Config Field
A: Up to 7 expansion slots, up to 16, 2.5" SSDs

IO Direction
R: Rear IO

Depth
22: 22 inches

Height
3U: 3 Rack Units

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

Product Line
RES

Front View

Rear View

mercury

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