mercury

RESX07-2U22F
22" Deep, Front 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 4 NVIDIA A100 GPUs

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 6 expansions slots:

- Slot 1: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 2: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 3: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 4: PCIe gen 4.0 dual-width x16 FHFL, up to 12" w/ FIO
- Slot 5: PCIe gen 4.0 single-width x8 HHFL, up to 7.5" w/ FIO
- Slot 6: OCP3.0 PCIe gen 4.0 x16 w/ FIO

Up to 2 NVMe M.2 slots

Power Supply Options

Dual-redundant (1+1) AC and DC power 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: 2x MIL-STD 750 W 120 VAC, 28 VDC 500 W

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

intel XEON GOLD

intel partner Titanium IoT Solutions

NVIDIA PREFERRED PARTNER

Additional Options
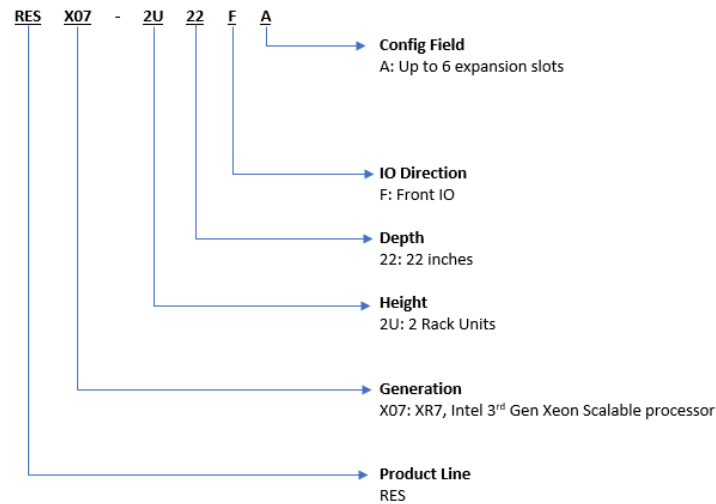
Shock pins

Slide rails

Cable accessories

Mechanical

Height: 2U or 3.5" (88.9 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)*: 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 F A

Config Field
A: Up to 6 expansion slots

IO Direction
F: Front IO

Depth
22: 22 inches

Height
2U: 2 Rack Units

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

Product Line
RES

Front View

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