

RaySense - Management and Processor Unit

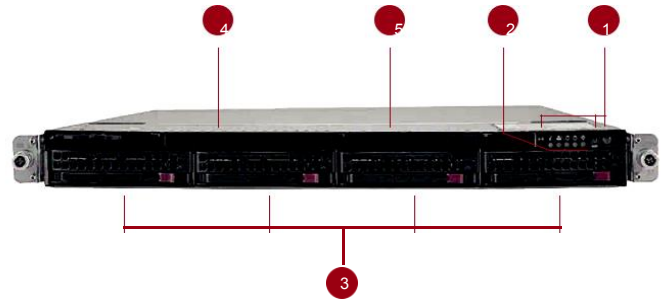
The management and processor unit for the RaySense DAS sensing system is based on an Ultra SuperServer. This server has a slim 1U dual socket designed for high-performance computing, virtualization, and software-defined storage. In addition to the Dual Intel's newest 3rd generation scalable Xeon 8-Cores processors, this system packs 32x memory module slots with 32GB of memory. The platform also supports four PCIe 4.0 x16 slots with an NVIDIA RTX A4000 professional graphics card. In addition, the RaySense management and processor unit has a dedicated Intelligent Platform Management Interface (IPMI) port to allow remote server management.

Chipset	Intel® C621A
CPU	Dual Socket P+ (LGA-4189) Intel Xeon Silver 4309Y Processor 8-Core
Ram	4 x 8 GB DDR4 1.2V 3200 EEC
HD	1 x 3.5" 8TB 7.2K RPM SATA 6Gb/s 256MiB, 4x 3.5" hot-swap SATA drive bays, RAID 0/1/5/10 support
GPU	NVIDIA RTX A4000 16GB
POWER	850W redundant Titanium level power supplies, 200-240Vac / 50-60Hz
USB	2 USB 3.0 port(s) (2 rear)

Network	2x 10GbE RJ45 Intel X710
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Operating Temperature	10°C ~ 35°C (50°F ~ 95°F)
Fans	8x 4cm heavy duty fans with optimal fan speed control
LEDs	HDD, LAN1 and LAN2 activity, Power status, System information (overheat/UID)
Dimensions (WxHxD)	437 x 43 x 754 mm / Package 60.5 x 20.3 x 95 mm
Weight	Net. 13.4 kg, Gross. 20.2 kg

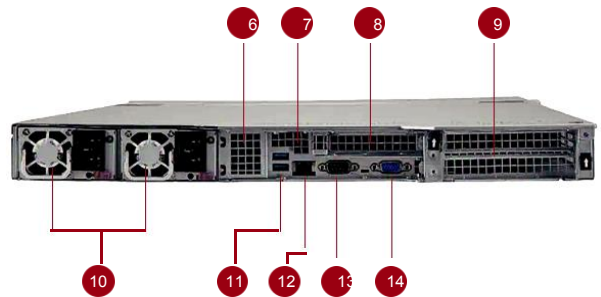
Front View

- 1 Power, Reset and UID Buttons
- 2 Status LEDs
- 3 3.5" Hot-swap NVME/SAS3/SATA3 Drive bays.
- 4 Slim DVD or 2.5" SSD Bay
- 5 Slim Floppy or 2.5" SSD Bay



Back View

- 6 Ultra Riser Networking Slot
- 7 PCI-E 4.0 16 Slot (Internal LP)
- 8 PCI-E 4.0 16 Slot (LP)
- 9 2x PCI-E 4.0 16 Slots (FH, 10.5"L)
- 10 Redundant 850w Titanium Level Power Supplies
- 11 2 USB 3.0 Ports
- 12 Dedicated IPMI LAN Port
- 13 Serial Port
- 14 VGA Port



Top View

- 15 2 SuperDOM Ports
- 16 32 DIMM Slots DDR4
- 17 Dual Intel 3rd generation scalable Xeon processors.
- 18 8 Internal Fans

