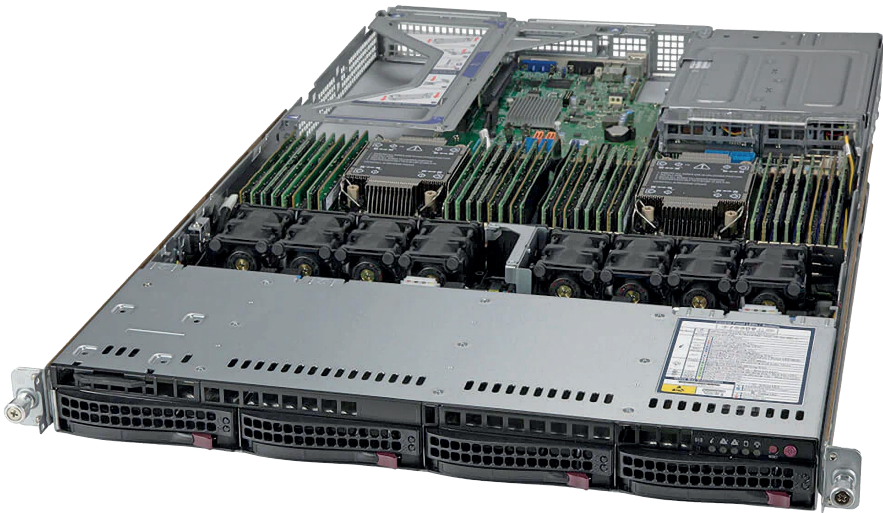


FOTAS Management and Processor Unit

The management and processor unit for the FOTAS acoustic sensing system is based on the Supermicro 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 a NVIDIA PNYQuadro RTX A4000 professional graphics card. In addition, the FOTAS management and processor unit has a dedicated Intelligent Platform Management Interface (IPMI) port to allow remote management of the server.



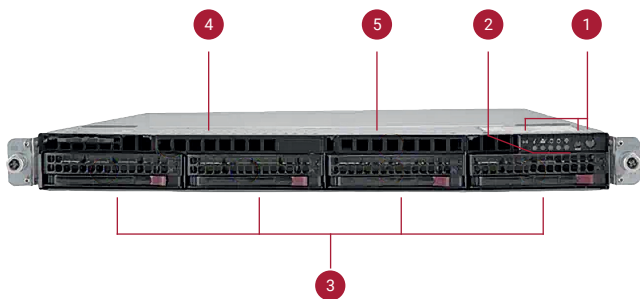
Technical Specifications

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
Drive	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 PNYQuadro RTX A4000 16GB
POWER	400W redundant Titanium level power supplies, 110-240Vac / 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 429 mm / Package 60.5 x 20.3 x 95 mm
Weight	Net. 13.4 kg, Gross. 20.2 kg

## Unit Details

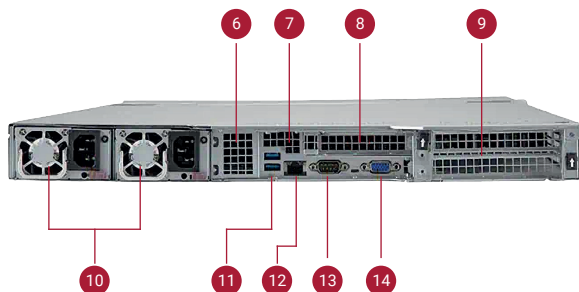
### Front View

- 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 32
- 16 DIMM Slots DDR4
- 17 Dual Intel 3rd generation scalable Xeon processors
- 18 8 Internal Fans

