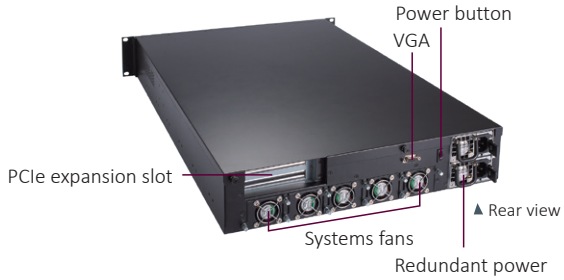
# NA870

2U Rackmount Network Appliance Platform with Dual LGA4189 Socket 3rd Gen Intel® Xeon® Scalable Processors, Intel® C621A /627A, and up to 66 LAN




TPM | LAN Bypass | IEC 62368-1 | M.2 | DDR4 | NIC Module | Redundant Power | Swappable HDD

## Features

- Dual CPU sockets for 3rd gen Intel® Xeon® Scalable processors with 8 to 40 powerful cores, up to 270W
- 20 DDR4-3200 R-DIMM for up to 1280GB of memory
- 8 expandable LAN modules in support of 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 100Gb Ethernet module with Intel® Ethernet controller E810 (AX93357/AX93358)
- First PCIe 4.0 ready platform
- Supports onboard IPMI (optional)
- Intel® Crypto Acceleration (Intel® C627A)

## Specifications

**System**

| | |
|---|---|
| CPU | Dual LGA4189 socket 3rd gen Intel® Xeon® Scalable processors (Ice Lake-SP), up to 270W |
| Chipset | Intel® C621A (default)<br>Intel® C627A (by project) |
| Memory | 20 x DDR4-3200 R-DIMM, up to 1280GB |
| BIOS | AMI SPI Flash BIOS |
| Storage | 2 x 2.5" SATA HDD hot swappable<br>1 x M.2 Key M 2242/2280 (PCIe)<br>1 x M.2 Key M 2242/2280 (PCIe/SATA) |
| Network Interface | 2 x GbE RJ-45 (Intel® I210)<br>Single CPU: 4 x LAN module (optional), up to 34 LAN ports<br>Dual CPU: 8 x LAN module (optional), up to 66 LAN ports |
| I/O | 1 x console (RJ-type)<br>2 x USB 3.0<br>2 x RJ-45<br>1 x VGA |
| TPM | Onboard TPM 2.0 |
| IPMI | Onboard BMC AST2500, IPMI 2.0 for option |

## Specifications

| | |
|---|---|
| Other Features | LAN bypass function through latch relay (depends on LAN modules) |
| Expansion Interface | 2 x PCIe x16 (optional; slot 1/CPU0, slot 2/CPU1) via riser card |
| Watchdog Timer | 255 stepping for system reset<br>8 stepping for LAN bypass |
| Power Supply | 1300W 2U redundant power supply |
| LCM Module | Yes |
| OS Compatibility | Linux |
| **Mechanical/ Environmental** | |
| Form Factor | 2U rackmount |
| LED | Power, HDD, programmable GPIO, and Link/Act with transfer rate LEDs |
| Operating Temperature | 0°C to +40°C (+32°F to +104°F) for Intel® C621A<br>+5°C to +40°C (+41°F to +104°F) for Intel® C627A |
| Storage Temperature | -20°C to +70°C (-4°F to +158°F) |
| Relative Humidity | 10% to 95% relative humidity, non-condensing |
| Chassis Material | Steel |
| Dimensions (H x W x D) | 88 x 430 x 663 mm (3.46" x 16.92" x 26.10'') |
| Package Dimensions (H x W x D) | 256 x 653 x 849 mm (10.08" × 25.71" × 33.43") |
| Weight (net/gross) | 14 kg (30.78 lbs)/20 kg (44 lbs) |
| Certifications | CE/FCC Class A |

## Ordering Information

| Standard (P/N) | CPU | PCH | Memory Slot | Ethernet Port | LAN Bypass | TPM | NIC Slot | Expansion | Power |
|---|---|---|---|---|---|---|---|---|---|
| NA870-621A-A w/o IPMI (P/N: E26E870100) | 3rd Gen Intel® Xeon® scalable processors | C621A | 20 | 2 x 1GbE in default | N/A | 2.0 | Up to 8 | 2 x PCIe x16 through riser card | 1300W redundant power supply |

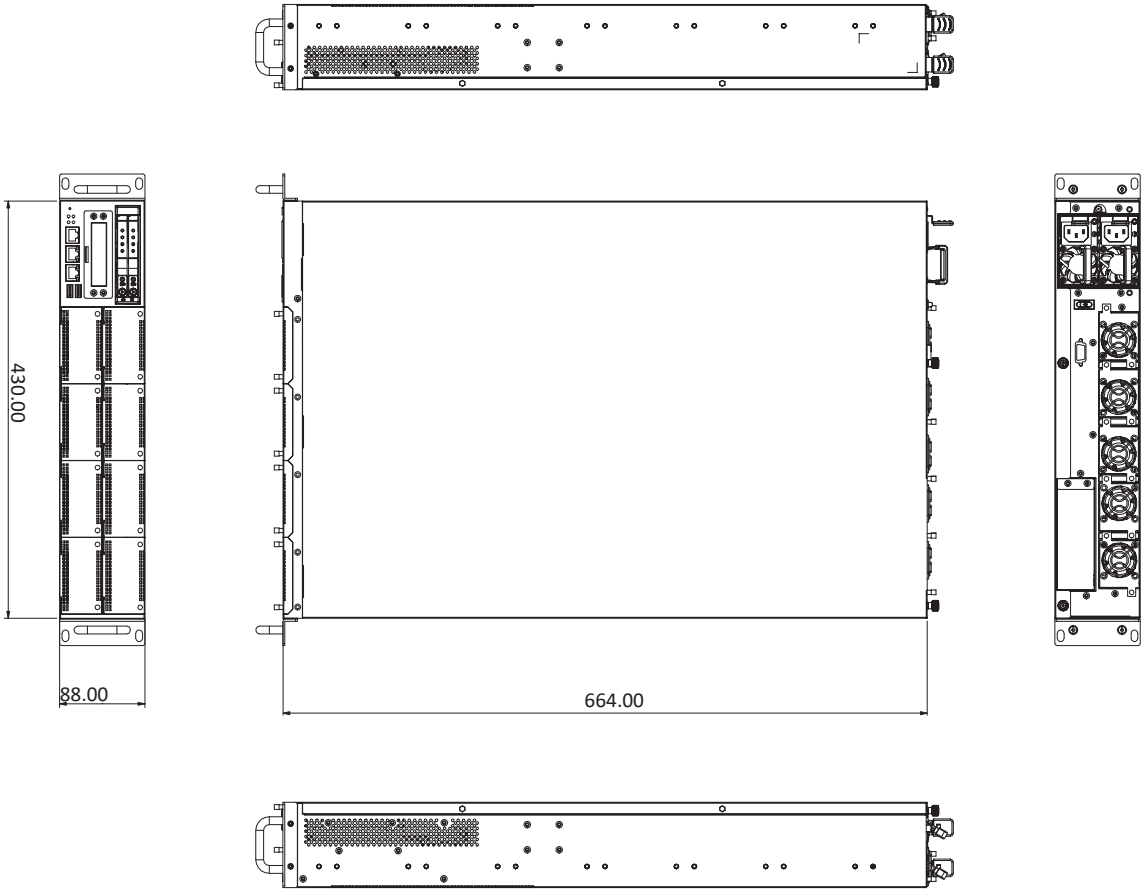
| **Optional Accessories** | |
|---|---|
| E393350101 | AX93350 1 slot for NA870 |
| E393350102 | AX93350 2 slot for NA870 |
| 5916E552000E | DB9F-RJ-45 1.8 m console cable for Cisco |
| 59906000010E | Power cord YP-12/YC-12 (Japan) |
| 59903000000E | Power cord YP-22/YC-12 (Europe) |
| 59905000000E | Power cord YP-35/YC-12 (Australia) |
| 59904010000E | Power cord/UK YP-61A/YC-12 L = 1830 mm |

**Optional NIC Modules**

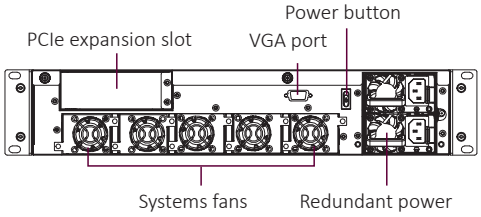
| P/N | Description |
|---|---|
| E393316109 | AX93316-8GI-I350 with LAN tray |
| E393322102 | AX93322-8FI-350 with LAN tray |
| E393322103 | AX93322-8MIL-350 with LAN tray |
| E393336102 | AX93336-4GIL-I350 2 LBP with LAN tray |
| E393336103 | AX93336-4FI-I350 with LAN tray |
| E393307100 | AX93307-2FI 10G 82599ES with LAN tray |
| E393327101 | AX93327-4FI 10G XL710 with LAN tray |
| E393331100 | AX93331-2QFI dual-port 40GbE with LAN tray |
| E393332100 | AX93332-25FI dual-port 25GbE with tray |
| E393358100 | AX93358-HFI 2 × 100 G E810 (2 x PCIe x8 front) |
| E393357100 | AX93357-HFI 2 × 100 G NIC E810 (PCIe x16) through riser card |

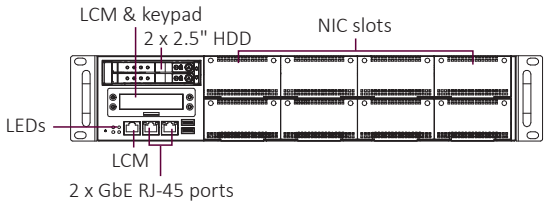
## Dimensions

Unit: mm




### I/O Mechanical Layout /Drawing




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