

## Unmanaged PoE+ Switches

- NS-104UT-MAQ** 10/100 Mbps, 4-Port, 2 Uplink
- NS-504UT-GAQ** Gigabit, 4-Port, 1 Uplink, 1 SFP
- NS-508UT-GA** Gigabit, 8-Port, 2 Uplink, AI
- NS-516UT-GAQ** Gigabit, 16-Port, 2 Uplink, 2 SFP
- NS-524UT-GA** Gigabit, 24-Port, 2 Uplink, 2 SFP, AI

### Features

- Provides both Ethernet data and power to multiple PoE devices, including IP cameras, IP access, IP speakers/intercoms, VOIP, etc.
- Specially designed for video transmission with fast packet forwarding capability for clear images and smooth transmission
- Easy plug-and-play installation
- Supports up to 10/100/1000BASE-T\*
- PoE standard IEEE 802.3af/at

### AI Functions

- **QoS (Quality of Service):** Devices connected to Port 1 and Port 2 (QoS ports) will receive priority in network traffic, while the bandwidth for devices on other ports will be reduced.
- **VLAN (Port Isolation):** Devices connected to the Downlink ports will only communicate with the Uplink ports and will not be able to communicate with each other.
- **Extend:** Downlink ports speed slows down to 10Mbps, enabling a transmission distance of up to 820ft (250m).
- **PoE Watchdog:** The switch will reboot the port after not receiving data for about 2 minutes.

**NOTE:** AI Functions are currently available only for the NS-508UT-GA and NS-524UT-GA.



NS-104UT-MAQ



NS-504UT-GAQ



NS-508UT-GA



NS-516UT-GAQ



NS-524UT-GA



\* NS-104UT-MAQ supports 10/100BASE-T only

**Specifications**

| Model                 | NS-104UT-MAQ   | NS-504UT-GAQ   | NS-508UT-GA   | NS-516UT-GAQ  | NS-524UT-GA                     |
|-----------------------|--|--|---|---|---------------------------------|
| Operating voltage     | 48~57 VDC†   | 100~240 VAC  |   |   |                                 |
| Power consumption     | <5W  | <5W  | <10W  | <15W  | <20W                            |
| Ports                 | Downlink   | 4  | 4   | 8   | 16                              |
|                       | Uplink   | 2  | 1   | 2   | 2                               |
|                       | SFP  | N/A  | 1   | N/A   | 2                               |
| Bandwidth             | 10/100Mbps (uplink, 100Mbps)                                     | 10/100/1000Mbps (uplink, 1000Mbps)   |   |   |                                 |
| Ethernet standard     | IEEE 802.3, IEEE 802.3u, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.3z                      | IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.3z                     | IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3af, IEEE 802.3at, IEEE 802.3x, IEEE 802.3z        |                                 |
| Transmission distance | Normal   | 328ft (100m)‡  |   |   |                                 |
|                       | Extend§  | 656ft (200m) at 10Mbps   | 820ft (250m) at 10Mbps  |   |                                 |
| PoE capacity          | 55W  | 60W  | 120W  | 250W  | 370W                            |
| Switching capacity    | 1.2Gbps  | 12Gbps   | 20Gbps  | 40Gbps  | 56Gbps                          |
| Transfer rate         | 10Mbps   | 14,880pps  |   |   |                                 |
|                       | 100Mbps  | 148,800pps   |   |   |                                 |
|                       | 1000Mbps   | N/A  | 1,488,000pps  |   |                                 |
| MAC Address table     | 1K   | 2K   | 4K  | 8K  |                                 |
| AI                    | N/A  | N/A  | QoS, VLAN, Extend, PoE Watchdog   | N/A   | QoS, VLAN, Extend, PoE Watchdog |
| LED Indicators        | Connection/transmission and PoE for each port, power             |  |   |   |                                 |
| Operating humidity    | 0~85% non-condensing   |  |   | 0~90% non-condensing  |                                 |
| Operating temperature | 14°~122° F (-10°~40° C)  |  |   |   |                                 |
| Dimensions            | 4"x7/8"x2 <sup>15</sup> / <sub>16</sub> " (102x22x75 mm)         | 6 <sup>5</sup> / <sub>8</sub> "x1 <sup>1</sup> / <sub>4</sub> "x3 <sup>11</sup> / <sub>16</sub> " (168x32x94 mm) | 7 <sup>7</sup> / <sub>8</sub> "x2 <sup>3</sup> / <sub>4</sub> "x4 <sup>5</sup> / <sub>8</sub> " (200x44x118 mm) | 12 <sup>5</sup> / <sub>8</sub> "x1 <sup>3</sup> / <sub>4</sub> "x8 <sup>1</sup> / <sub>8</sub> " (320x44x207mm) |                                 |
| Weight                | 6.8-oz (194g)  | 1-lb 5-oz (480g)   | 1-lb 12.4-oz (806g)   | 4-lb 8-oz (2.06kg)  |                                 |

†Power adapter included

‡Distance depends on Ethernet cables used. Cat5e/6 recommended

§NS-104UT-MAQ with DIP switch ON. NS-5xx-GA with Extend ON.

**Sample Application**

