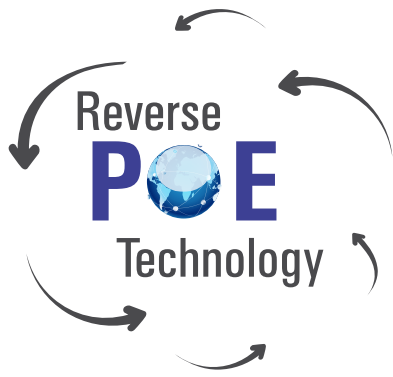




***Revolutionary Products For The ISPs / WISPs***

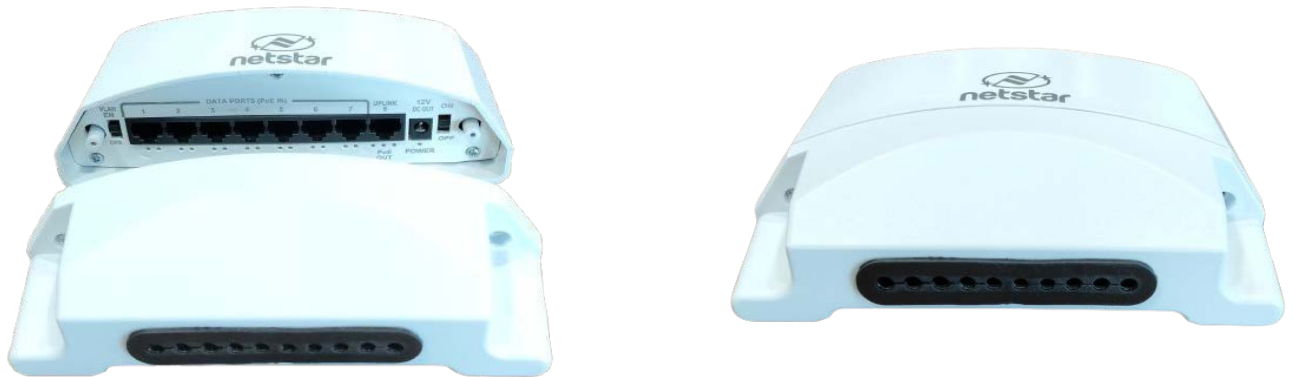


**NS-8G-RP-OD**

**Outdoor Gigabit Reverse PoE Switch**



## **An Outdoor Gigabit Reverse PoE Switch for Sharing a Single Wireless CPE with Multiple Clients**



The NS-8G-RP-OD is a Gigabit Outdoor Reverse PoE Switch designed specifically for WISPs, featuring intelligent power management that solves the common challenge of powering devices at remote locations. With this switch, WISPs no longer need to worry about arranging separate power sources for the RPoE switch or other Wireless CPE/PoE-enabled devices. It can be powered using standard PoE injector(24VDC ~ 48VDC). RPoE Switch can draw the necessary power even from a single client. Ethernet Port 8 can power other Wireless CPE / PoE enabled devices, eliminating the need for a UPS or dedicated power backup at rooftop installations. There's also no need to pay building owners or clients for 24/7 power availability. Overall, the NS-8G-RP-OD offers a highly efficient and cost-effective solution, saving both time and money for WISPs in multi-client wireless deployments.

## FEATURES

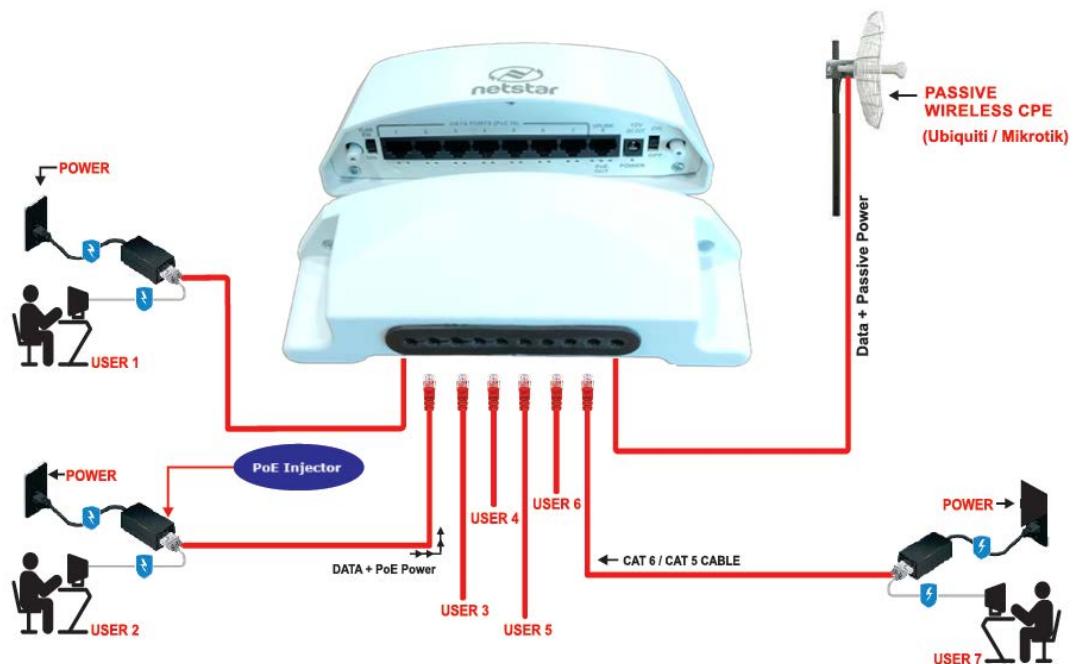
- ▲ **Intelligent Power Management Feature :** Switch can be powered using reverse power from customer using any standard PoE Injector(24VDC ~ 48VDC). The switch will output the same voltage from the uplink port as it receives through the downlink ports(PoE In). Do not mix PoE injectors of different voltage ratings on the same switch
- ▲ **Supports Auto-Negotiation:** Each switch port automatically detects whether the connected network device is operating at 10Mbps, 100Mbps, or 1000Mbps, and adjusts the speed and duplex mode accordingly—ensuring easy and hassle-free operation.
- ▲ **Selectable Uplink PoE Output:** Power output on the uplink port can be turned on or off using a DIP switch, offering flexible deployment options without reconfiguration.
- ▲ **Port Based Isolation:** Data from the uplink port can be transmitted to any of the downlink ports, but individual downlink ports cannot communicate with each other. Port isolation can be enabled or disabled using a DIP switch.
- ▲ **Surge Protection:** Surge protection is provided on each port to safeguard against high-voltage surges on both data and uplink ports.
- ▲ **Over Voltage Protection :** Each port includes over-voltage protection to prevent damage caused by high-voltage PoE injectors.
- ▲ **Over Current Protection :** Over-current protection is provided to prevent damage caused by excessive current flow.
- ▲ **Cascading :** Switches can be cascaded for more user. With Cascading, even if one customer switches on power then power will be on all upstream switches.

# TECHNICAL SPECIFICATION

|                                        |                                                                                                                                                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                    | NS-8G-RP-OD                                                                                                                                                                                                                                            |
| <b>Ethernet Connector</b>              | Uplink : 1 x Gigabit Data + PoE Out Port (Port 8)                                                                                                                                                                                                      |
|                                        | Downlink : 7 x Gigabit Data + PoE In Ports (Port 1 to 7)                                                                                                                                                                                               |
| <b>Standards</b>                       | IEEE Std. 802.3 10BASE-T<br>IEEE Std. 802.3u 100BASE-TX<br>IEEE 802.3ab 1000Base-T<br>IEEE Std. 802.3x Flow control and Back-pressure<br>IEEE Std. 802.3az Energy Efficient Ethernet                                                                   |
| <b>Protocols</b>                       | CSMA/CD                                                                                                                                                                                                                                                |
| <b>Transmission Method</b>             | Store and Forward                                                                                                                                                                                                                                      |
| <b>MAC Address</b>                     | 4K MAC address                                                                                                                                                                                                                                         |
| <b>DC Out Jack</b>                     | 12VDC                                                                                                                                                                                                                                                  |
| <b>LEDs</b>                            | Green : ON - Device On Stable<br>Blue : ON - PoE Power Out from Uplink Port(8)<br>Yellow : ON - Gigabit Link Activate<br>Yellow : Flashing - Gigabit Data Transmission<br>Red : ON - 10/100 Link Activate<br>Red : Flashing - 10/100 Data Transmission |
| <b>Input Voltage (PoE In)</b>          | 18VDC ~ 48VDC Power over Ethernet                                                                                                                                                                                                                      |
| <b>PoE Out from Uplink Port</b>        | Same voltage as the applied PoE Input voltage                                                                                                                                                                                                          |
| <b>Port Based Isolation</b>            | Enable / Disable by Toggle Slider                                                                                                                                                                                                                      |
| <b>Cascading</b>                       | Switches Can be Cascaded for more User                                                                                                                                                                                                                 |
| <b>Network Cable</b>                   | 4-pair UTP Cat 5 / Cat 6 cable                                                                                                                                                                                                                         |
| <b>CAT-5 / Cat-6 Cable Data Lines</b>  | All 4 Pair : Pin 1, 2, Pin 3, 6, Pin 4, 5 & Pin 7, 8                                                                                                                                                                                                   |
| <b>CAT-5 / Cat-6 Cable Power Lines</b> | +VDC : Pin 4,5 & -VDC : Pin 7,8                                                                                                                                                                                                                        |
| <b>Power consumption</b>               | 3 Watt (for Switch)                                                                                                                                                                                                                                    |
| <b>Operating Temperature</b>           | 0° to 60°C                                                                                                                                                                                                                                             |
| <b>Storage environment</b>             | -20° to 80°C                                                                                                                                                                                                                                           |
| <b>Operating Humidity</b>              | 20% to 95% (non-condensing)                                                                                                                                                                                                                            |
| <b>Dimensions</b>                      | 185 x 55 x 149 mm                                                                                                                                                                                                                                      |
| <b>Weight</b>                          | Net: 0.4Kg Gross: 0.56Kg                                                                                                                                                                                                                               |



# APPLICATION DIAGRAM



# CASCADING DIAGRAM

