



*Revolutionary Products For The ISPs / WISPs*



**NS-8FE-RP**

**10/100Mbps Reverse PoE Switch for All Networks**

# 10/100Mbps Reverse PoE Switch for All Networks

*All Purpose Switch – Can work with ONU/ONT,  
Fiber Media Converter, Wireless CPE.*



NETSTAR switch has intelligent Power management feature solving a major problem of powering the device for ISPs. ***This switch can be used for various applications such as with ONU, with media converter or with wireless CPE.*** ISPs need not worry about arranging power for RPoE Switch and Third Party ONU / ONT / Media Converter / Wireless CPE. This switch can be powered using any standard PoE Injector (18~48VDC). RPoE Switch can draw the necessary power even from a single client. This eliminates the need of UPS / Power Backup at building top. No need to pay to the Building Owner / Any Client for 24 power backup. Overall the RPoE switch saves a lot of money and time for ISP.

## Features

- ▲ **Intelligent Power Management Feature** : Switch can be powered using Reverse Power from customer using any standard PoE Injector (18V~48VDC @ 0.5~1Amp).
- ▲ **Supports Auto-Negotiation** : Each of the switch ports automatically detect whether connected network devices are running at 10Mbps / 100Mbps and adjusts the speed and mode accordingly ensuring easy and hassle-free operation.
- ▲ **Supports Non-Blocking Wire Speed** : The Switch forwards and receives traffic seamlessly with its non-blocking wire-speed.
- ▲ **Port Based Isolation** : Data of the Uplink Port can be transfer to any of the Downlink ports but the Individual Downlink ports can't communicate with each other. Port Isolation Can be enabled/Disabled using Push Button.
- ▲ **Surge Protection** : Surge protection provided each port to protect against high voltage surge on data ports or Uplink port.
- ▲ **Cascading** : Switches Can be Cascaded for more User.



**All Purpose Switch – Can Work with ONU/ONT, Wireless CPE, Fiber Media Converter**



**Quick & Affordable Way to Roll-Out Broadband**



**Share Last Mile Equipment with Multiple Users, Can also do Switch-to-Switch Cascading**

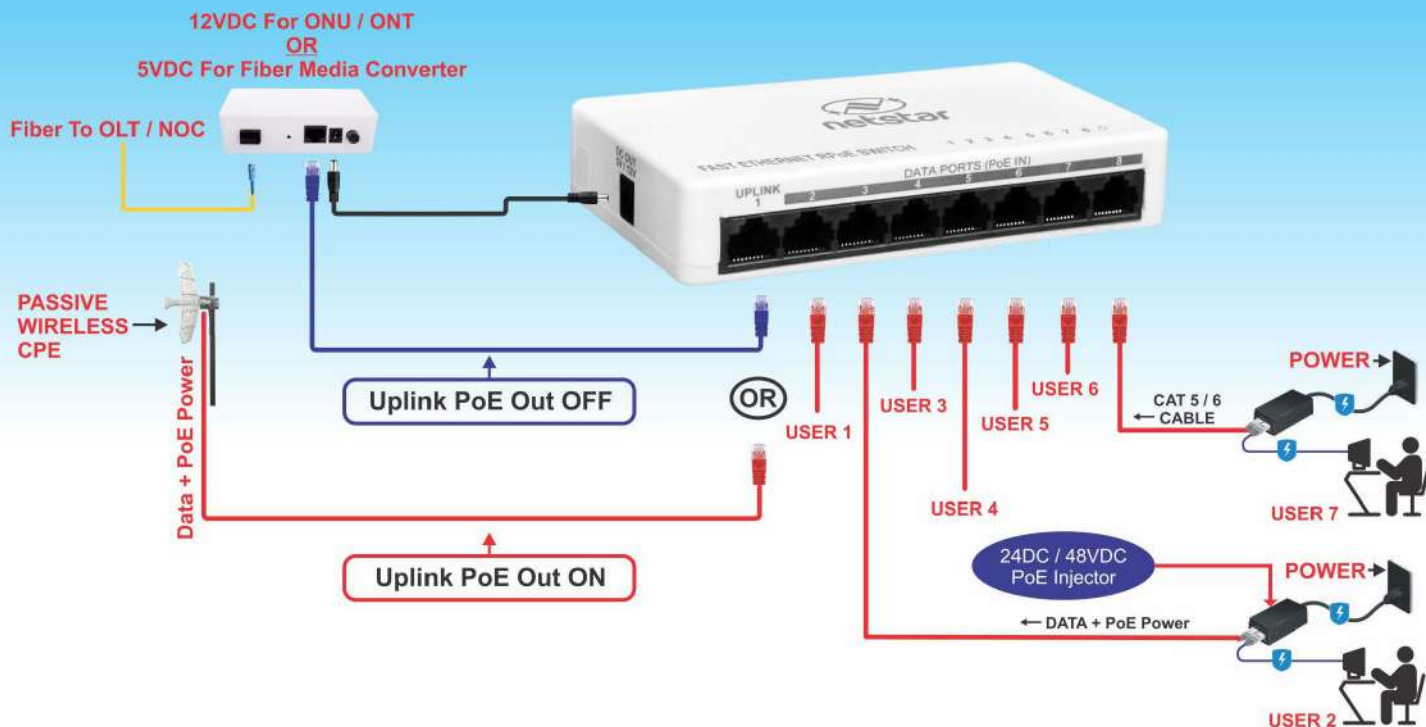


**No Local Power or UPS Backup Required for Any Last Mile Equipment**

## Technical Specification

|                           |                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Connector        | RJ45 Jacks - 8 Ports                                                                                                                                                                                                          |
| Downlink                  | 7 x 10/100Mbps RPoE Ports (Ports 2 to 8)<br>(Data + Power IN)                                                                                                                                                                 |
| Uplink                    | 1 x 10/100Mbps Uplink Port (Port 1)<br>Data Uplink <b>OR</b> Data+PoE Out Uplink by Toggle Slider                                                                                                                             |
| DC Out Jack               | 12VDC <b>OR</b> 5VDC by Toggle Push Button                                                                                                                                                                                    |
| Port Based Isolation      | Enable / Disable by DIP Button                                                                                                                                                                                                |
| Input Voltage             | 18VDC to 48VDC Through PoE Injector                                                                                                                                                                                           |
| Protocols                 | CSMA/CD                                                                                                                                                                                                                       |
| Transmission Method       | Store and Forward                                                                                                                                                                                                             |
| MAC Address               | 1K MAC address                                                                                                                                                                                                                |
| LED Indicator             | Green : ON - Device On Stable<br>Yellow : ON - Uplink Port Link Activate<br>Yellow : Flashing - Uplink Port Data Transmission<br>Red : ON - Downlink Ports Link Activate<br>Red : Flashing - Downlink Ports Data Transmission |
| Standards                 | IEEE Std. 802.3 10BASE-T<br>IEEE Std. 802.3u 100BASE-TX<br>IEEE Std. 802.3x Flow control and Back-pressure.<br>IEEE Std. 802.3az Energy Efficient Ethernet                                                                    |
| CAT-5/6 Cable Data Lines  | Pin 1,2 & Pin 3,6                                                                                                                                                                                                             |
| CAT-5/6 Cable Power Lines | +VDC : Pin 4,5 & -VDC : Pin 7,8                                                                                                                                                                                               |
| Operating Temperature     | Operation: 0°C ~ 60°C, Store: -20°C ~ 80°C                                                                                                                                                                                    |
| Operating Humidity        | 20% to 95% (non-condensing)                                                                                                                                                                                                   |
| Power consumption         | 3 Watt                                                                                                                                                                                                                        |
| Dimensions                | 130 x 70 x 25 mm                                                                                                                                                                                                              |
| Weight                    | 0.15 Kg                                                                                                                                                                                                                       |

# Application Diagram



**\*Please turn off the switch power before using any Toggle Button**

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