

## 8 PORT UNMANAGED EDGE SWITCH WITH POE

Model: ES- 8008- PE



Telenet's 8-port 10/100Mbps Unmanaged Edge Switch is the latest generation of fast Ethernet switching technology. Eight 10/100Base-TX auto sensing, auto MDI/MDIX ports eases the selection of cable type for devices connectivity and provide a completely flexible high-performance non-blocking full wire speed solution. This switch provides a range of powerful features, delivering reliability and consistent performance for your network traffic. The switch supports standard IEEE 802.3x Flow Control standard which eliminate packet loss in heavy traffic conditions.

The Switch uses store-and-forward switching to ensure maximum data integrity. The 10/100 Mbps ports support auto-sensing and auto-negotiation at network speeds. All ports support auto MDI/MDI-X feature, allowing you to connect to workstations, servers, or other switches from any port without the need to change your usual straight-through to twisted-pair cables.

The feature of Port Isolation is implemented in this Unit where in the Ethernet Data of the Uplink Port can be transferred to any of the Downlink ports but the individual Downlink ports cannot communicate with each other. This feature is implemented using Port based VLAN.

### Telenet Systems Pvt. Ltd.

2, Mani Bhuvan, Cama Road, Ghatkopar, Mumbai 400 086, Maharashtra, INDIA

T: +91.22.25138325 / 25158374 F: +91.22.25104911 E: [info@telenetsystems.com](mailto:info@telenetsystems.com) W: [www.telenetsystems.com](http://www.telenetsystems.com)

## **Power over Ethernet Feature:**

Out of the 8 ports, the 8th port is configured as Uplink Port (PoE-Injector = Data + Power OUT) and remaining ports act as Downlink Ports (PoE-PD = Data + Power IN)

## **Power over Ethernet PoE-Injector:**

Telenet's Unmanaged Edge Switch has POE functionality on the Uplink port. This feature allows the Unmanaged Edge Switch to remotely power ON any compatible device by "Injecting" DC power through the CAT5 (10/100Mbps) Ethernet cable. Following the IEEE standard PoE pinout (Pins 4&5 Power +ve / Pins 7&8 Power -ve), our POE injector device automatically supplies inline power to Power up the compatible PoE device.

## **Batt option:**

Telenet's Unmanaged Edge Switch can alternately be powered on with a local BATT of 12V- 15V. When supply is given at these BATT terminals,

1. The supply (if present) from any of the 7 downlink PoE-PD ports will get isolated / disconnected.
2. The PoE Injector will also get isolated / disconnected i.e. for e.g. if a CPE is connected to the Uplink Port it will NOT get Powered ON.
3. Only to the Unmanaged Edge Switch Unit will be powered.

**Unmanaged Edge Switch can in effect be powered on by any one of the downlink ports and simultaneously switch on another compatible PoE device on the Uplink Port OR it can be powered on from a Local BATT option, in which case all PoE features of the Unmanaged Edge Switch will get disabled.**

## **Features:**

1. 8-port 10/100Base-TX interface with auto sensing provide a completely flexible high-performance Non-blocking full wire speed solution.
2. The switch supports Max Packet Size of 1536 bytes
3. The switch supports standard IEEE 802.3x Flow Control to Prevent Packet Loss.
4. Forwarding mechanism – Store and Forward.
5. Port Isolation using Port-based VLAN.
6. Surge Protection on all 8 Ports (Downlink and Uplink ports)

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<b>TECHNICAL SPECIFICATIONS:</b>	
Ethernet Connectors	RJ45 Jacks (8 Ports) 10/100Base-TX with Auto-MDIX
	Uplink : 1-ports PoE Injector (Data + Power OUT)
	Downlink : 7-ports PoE PD (Data + Power IN)
BATT Connector	Terminal Block
PoE IEEE802.3af Standard	Not Compliant.
Standards	IEEE Std. 802.3 10BASE-T 10Mbps, Half/Full Duplex;
	IEEE Std. 802.3u 100BASE-TX, 10/100Mbps, Half/Full
	Duplex; IEEE Std. 802.3x Flow control and Back-pressure.
Protocols	CSMA/CD
Technology	Store and Forward switching architecture
MAC Address	1K MAC address
Network Cable	2-pair UTP/STP Cat 5 cable
LEDs	Link/Activity per Ethernet port
	Power: On/Off for Switch
	Power: On/Off for PoE Injector
Power Over Ethernet Injector: Power Supply (IN) for Unmanaged Edge Switch	Power over Ethernet 18V @ 30W on Spare Pair (to supply power to the Unmanaged Edge switch as well as a compatible PoE device (e.g. CPE)).
No. of Ethernet Ports that can Power ON the Unmanaged Edge Switch	Anyone/All of the seven Downlink Ports
BATT option	Input Voltage : 12V -15V Max Power : 5W
Power Over Ethernet Injector: Power OUT to external compatible PoE device	Power over Ethernet Injector on Spare Pair of Uplink Port. Voltage : 8V-18V Max Power : 5W
Ethernet Devices that can be powered	Single
CAT-5 Cable Data Lines	Pair 1: Pins 1/2 , Pair 2: Pins3/6
CAT-5 Cable Power Lines	+ VDC: Pins 4/5 , -VDC: Pins 7/8
Power consumption	5 Watt (Edge Switch) 5 Watt (PoE Injector)
Operating Temperature	0° to 40°C
Storage environment	0° to 75°C
Operating Humidity	20% to 90% (non-condensing)
Dimensions	
Environment Std (IP)	Dust Protected , Protected from Spray Water upto 60 Degree from Vertical

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