

DATA SHEET

RPOE switch has intelligent device Power management features solving a major problem of powering the device for internet service provider. This switch can be powered using remote power from customer using specially designed POE injector or any standard POE injector(24v DC,0.75amp).This eliminates the needs of arranging power at building top (ups not require/No need to pay more money to customer or society).This saves lot of money of ISPs and improves uninterrupted service to the customer.



An Ethernet reverse power supply (rpoE) switch is a dedicated device that [contains multiple Ethernet ports to power from other devices on the RJ45 cable](#). It can be used where there [is no power supply](#), and its 12 V / 5 V DC jack can also provide power for [GPON / EPON ONU or other devices](#).

REVERSE POE TECHNOLOGY:8 Port 10/100 Reverse POE switch which has latest generation of fast Ethernet reverse POE switching technology. It contains 7*10/100 base T Reverse Poe ports (RPOE),1*10/100 Base date Uplink Port&12V DC out for Powering ONU.

Supports Auto-Negotiation: Each of the ports automatically detect whether connected network devices are running at 10Mbps or 100Mbps and half-duplex or full-duplex mode, 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. Every port of the Switch supports speeds up to 200Mbps in full-duplex mode simultaneously, providing full wire speed to connected devices and allowing you to run a high speed network smoothly.

Cascading support: switches can be cascaded for more users per Building (Up to 1 Main+3 switches)

Port base Isolation u/Hardware VLAN: The feature of Port Isolation is implemented in this unit where in the Ethernet Date of the Uplink Port can be transferred to any of the Downlink ports but the individual Downlink ports cannot communicate with each other.

Over voltage Protection: Over voltage Protection is provided on each date port to eliminate damage due to connection of higher voltage(Higher than 24V DC. Up to 80V DC). By mistake if user connect more than 24V POE injector then switch will goes on power off mode and will start working again once this high voltage source is removed.

Over current Protection: We have provided over current protection on each port to prevent damage to the switch in case of high current flowing due to any reason. This is provided using Resettable Fuse to facilitate easy maintenance and avoiding frequent change of blown fuse.

TECHNICAL SPECIFICATION

Ethernet Connector	RJ45 Jacks(8 Ports)10/100Base-TX with Auto-MDIX
Uplink	1*10/100 Base T Data Uplink Port(port 1)
Downlink	7*10/100 Base-Reverse POE Ports(Port 2to 8)Data + Power in
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 IEEE STD.802.3AZ Energy Efficient Ethernet
Protocols	CSMA/CD
Transmission Method	Store and forward
MAC ADDRESS	Support 1k MAC address
Packet Buffer	Embedded 448K bits packet buffer
Maximum Forwarding Packet Length	1552/1536 bytes option
Filtering/Forwarding Rates	100Mbps Port – 148800pps 10Mbps Port – 14880pps
Network Cable	4-pair UTP/STP Cat 5 cable
LED s	Link/Activity per Ethernet port Power: On/Off for switch
Power Over Ethernet injector: Power Supply(IN)	Power over Ethernet 24V @ 18W on SPARE pair (to supply power to the HDV switch as well as a compatible POE device(e.g. CPE)
No. of Ethernet Ports that can Power On the Switch & ONU	Any one /all of the seven Downlink Ports
Power Over Ethernet	Power over Ethernet injector on Four Pair Cable
DC Out	12V/2A DC OUT THROUGH DC jack for powering other Device like ONU
Ethernet Devices that can be powered	Single
CAT-5 Cable Date 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 (Poe injector) / 2 Watt (Switch)

Operating Temperature	0°C to 50°C
Storage environment	0°C to 75°C
Operating Humidity	20% to 95% (non-condensing)
Dimension of Switch	125mm*70mm*25mm
Weight of Switch	0.45KG

APPLICATION DIAGRAM

7*10/100 Base T Reverse POE Ports(RPOE) & 1*10/100 Base T Uplink Port & 12V DC Power out for Powering ONU

