

PoE-8M

8 port PoE-VLAN Master Switch

Remote Management and Power Control with VLAN

ValuePoint™ Networks POE-8M Rugged Power over Ethernet (POE) switch combines QoS and VLAN with 802.3af remote power for standard network cabling up to 100 meters, remotely manageable from any Web browser or SNMP Manager. We designed the POE-8M for larger Wi-Fi deployments requiring multiple Access Points (APs) and VLAN. A single POE-8M unit provides complete power and data for eight (8) access points that can be remotely power cycled. A remotely manageable PoE switch saves costly on-site visits. Deploying the POE-8M is more cost effective than a separate VLAN switch and mid-Span PoE hub, dramatically lowering your infrastructure costs, and increasing your Return on Investment.



Hardware Features

The POE-8M supports 8 10/100/1000Mbps Auto-negotiation, Auto-MDIX Ethernet ports and Power over Ethernet to IEEE 802.3af compliant devices. It's fully compliant with the standards of IEEE 802.3/u/x/z/ab/af. Using web-based management, the network administrator can remotely access the switch to monitor and configure. It also includes advanced features like Jumbo frame, QoS (Quality of Service), port-based VLAN & Link Aggregation capability.

QoS support layer 4 classification

The switch supports not only Layer 2 802.1p Priority Queue control, but also programmable higher layer classification and prioritization to enable enhanced Quality of Service (QoS) support for real time applications such as VoIP, based on information taken from Layer 2 to Layer 4.

Port Mirroring

Port mirroring copies traffic from a specific port to a target port. This mechanism helps track network errors or abnormal packet transmission, without interrupting the flow of data.

VLAN for performance & security

This feature offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security.

Limiting broadcast traffic to the same VLAN broadcast domain also enhances performance.

Port Trunking for bandwidth aggregation

The Gigabit ports can be combined together to create a multi-link load-sharing trunk. Up to 6 Gigabit ports can be set up per trunk. The switch supports up to 6 trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.

Trap Event for Exception Management

SNMP Traps report abnormal status of the switch.

Dual Media for Flexible Fiber Connection

Dual media ports are provided for flexible fiber connection. You can select to install optional transceiver modules in these slots for short, medium or long distance fiber backbone attachment. Use of the SFP will disable their corresponding built-in 10/100/1000Base-T connections.

About ValuePoint Networks

ValuePoint Networks is the foremost manufacturer of price leading Gateway Controllers, Rugged Access Points, and outdoor Mesh gear.

ValuePoint products are used in Hospitality, MTU/MDU, industrial, WISP, outdoor, hotspot, municipal, and enterprise applications.

Using ValuePoint gear, you can light up more for less, reduce your capital expenditures, and improve your Return on Investment.

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Technical Specifications

Hardware

- 802.3af PoE Standard
- 802.3 10Base-T Ethernet, 802.3u 100Base-T Ethernet, 802.3ab 1000Base-T Ethernet
- 802.3z 1000Base-X Ethernet
- 802.3x Flow Control capability
- 802.3 Auto-negotiation
- 802.1p Priority Tag
- 802.1q VLAN
- 8 Gigabit Ethernet ports.
- Auto-negotiation, Auto-MDIX
- Back pressure flow control for half duplex, flow control for full duplex.
- Port 7,8 are TP/SFP Fiber auto sense or Gigabit Ethernet
- Connector: 8 RJ-45 and 2 SFP module

Performance

- 8 Gigabit Ethernet ports with non-blocking wire speed performance.
- 8 K MAC addresses
- 208KB on-chip frame buffer.
- Jumbo frame support.

Management

- Web manageable from any browser

- SNMP
- **VLAN**
Port-base VLAN
IEEE802.1q tag-base VLAN, 4094 Max
- **QoS**
- Supports Layer 4 TCP/UDP Port and ToS Classification
- Supports 802.1p QoS with two level priority queue
- **Bandwidth Control**
- Supports bandwidth rating per port ingress and egress rate limit 1000Mbps with 1Mbps
- **Port Trunk**
- Port trunking with 6 trunking group up to 6 ports for each group.
- **Broadcast/Multicast Storm**
- Broadcast Storm control
- **Port Mirroring**
- All port support port mirroring.
- **PoE Features**
- Supports IEEE 802.3af compliant
- Supports Power over Ethernet (PSE) on each Gigabit UTP port
- Full power support for per POE port
- Auto detect powered device and consumption levels
- Supports per port power consumption monitoring
- Smart feature for PD on/off, PD detection, power level, PD status and power feeding priority
- Circuit protection to prevent power interference between ports
- Supports per port PoE State setting
- Supports per port power priority setting
- LED indicators for POE ready and POE activity

LED Descriptions

Global	POWER	Green	Lit when +5V power is coming up
Global	CPU ACT	Green	Blinks when CPU is activity
Port 1-8	LINK/ACT	Green	Lit when connection with remote device is good Blinks when any traffic is present
Port 1-8	1000/100Mbps	Green/Amber	Lit Green when TP link on 1000Mbps speed Lit Amber when TP link on 100Mbps speed Off when 10Mbps or no link occur

Port 7,8	SFP	Green	Lit when SFP connection with remote device is good Blinks when any traffic is present
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Power and Environmental

Voltage	100~240 V
Frequency	50~60 Hz
Power Requirement	205W or 155W
Total Power for PoE	65W
Ambient Temperature	0° to 50°C
Humidity	5% to 90%
Dimensions	12 x 9 x 2 In. / 3 Lbs.
Safety	Comply with FCC Part 15 Class A & CE Mark Approval