



**ProSwitch® PoE
Managed PoE Fast Ethernet/
Gigabit Switch**

Model: 2126-POE

Key Highlights

- ▶ 24-port switch with 10/100Base-TX ports
- ▶ 2 mini GBIC slots for 1000Base-SX and LX fiber or 10/100/1000Base-TX
- ▶ 26 usable ports
- ▶ Support PoE (Power over Ethernet)
- ▶ Add fiber SFPs as you need them
- ▶ Managed features include:
 - Access via web, Telnet or CLI
 - LACP
 - GVRP/GARP
 - IGMP snooping
 - STP/RSTP (802.1d/1w/1s)
 - SNMP V1, V2C
 - RMON
 - Enterprise MIB
 - Virtual stacking management
 - 802.1x access control
 - QoS
 - Port mirroring
 - VLANs
 - Port trunking
- ▶ Rack mountable
- ▶ Backed by Waters' limited lifetime warranty
- ▶ Made in the U.S.A.

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ProSwitch® 2126M-PoE Ethernet Switch
24 10/100Base-TX Ports
2 Slots for 1000Base-SX and LX Fiber

**2126M-POE switch with
24 10/100-TX ports
2 mini GBIC slots and 2
10/100/1000 ports**



Waters Network Systems' ProSwitch 2126M-PoE model provides 24 10/100Base-TX ports for your wiring closet with two mini GBIC slots for fiber or copper Gigabit connectivity. PoE ports provide power to end devices such as wireless access points, VoIP phones or security cameras directly through existing LAN cables. Waters' Gigabit switch provides a cost savings migration path from 10 to 1000Mbps switched Ethernet.

Features and Benefits

- **PoE for your infrastructure.** Waters' 2126M-PoE is 802.3af compliant. Deliver data, voice, and video along with electrical power through a standard Category 5 or higher cable. Supports per port power consumption monitoring. Smart feature for power device (PD) on/off, PD detection, power level, PD status and power feeding priority.
- **802.3x Flow Control.** The 2126M is compliant for full duplex and back pressure flow control for half duplex.
- **Dual media for flexible fiber connectivity.** Ports 25 and 26 can be used for additional Gigabit connectivity in either fiber or copper. The 2126M provides 26 usable ports with the flexibility of either fiber or copper uplinks for Gigabit connectivity.
- **QoS supports layer 4 classification.** The 2126M provides four internal queues which support four different classifications of traffic. The switch classifies the packets as one of the four priorities according to vip port, 802.1p priority tag, DiffServe and/or IP TOS.
- **Q-in-Q VLAN for performance and security.** VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance. The 2126M supports advanced VLAN techniques such as 802.1Q.
- **MAC-based 802.3ad LACP with Automatic Link Fail Over.** Dynamic fail-over means packets will not get assigned to any trunk member ports that has failed. So, if one of the port were to fail, traffic will automatically be distributed to the remaining activity ports.
- **802.1x Access control for improved network security.** The 802.1x function enables user authentication for each network access attempt. Port security allows you to limit the number of MAC addresses per port for better control. Static MAC addresses can be defined for each port to ensure only registered workstations are allowed access. By enabling both of these features, you can establish an access mechanism based on user and workstation identities, as well as control the number of access stations.
- **Rapid Spanning Tree.** For mission critical environments with multiple switches supporting STP, you can configure the 2126M switch with a redundant backup bridge path. This feature assures the timely and accurate delivery of all data, voice and video packets.



ProSwitch® PoE Ethernet Switch

ORDERING INFORMATION

Model	Description
Managed PoE Ethernet Switch	
2126M-POE-185	24 port POE managed switch with 24 10/100Base-TX RJ45 ports plus 2 slots for 1000Base-SX or LX fiber and 2 10/100/1000Base-TX RJ45 ports with 185 watts PoE power
SFP Fiber Modules	
SFP-1000SXLC	1 port 1000Base-SX MM fiber module with LC connector
SFP-1000LXLC-10	1 port 1000Base-LX SM (10km) fiber module with LC connector
SFP-1000LXLC-30	1 port 1000Base-LX SM (30km) fiber module with LC connector

SPECIFICATIONS

OPERATIONAL CHARACTERISTICS:

- MAC Address Table
- ▶ All Models: 8K
- Switching Mode
- ▶ Store-and-forward
- Memory Buffer Size
- ▶ 256KB
 - ▶ 128k control memory
- Performance
- ▶ Non-blocking
 - ▶ Auto negotiation
 - ▶ Auto-MDIX
 - ▶ Back pressure flow control for half duplex
 - ▶ Flow control for full duplex
 - ▶ Maximum throughput is 8.8Gbps

MANAGEMENT FUNCTIONS:

- ▶ Web-based, Telnet, SNMP and CLI
- ▶ Port setting for duplex and speed
- ▶ MAC-based port trunking
- ▶ Port based and tagged VLANs (up to 256)
- ▶ IGMP snooping
- ▶ 802.1x access control
- ▶ GVRP/GARP
- ▶ Port mirroring
- ▶ Broadcast storm suppression
- ▶ QoS
- ▶ LACP (with auto link fail-over support)
- ▶ STP/RSTP
- ▶ VSM (supports 16 stacking devices)
- ▶ Enterprise MIB
- ▶ RFC1213MIB (MIB-II)
- ▶ RFC1757 RMON MIB
- ▶ RFC1493 Bridge MIB
- ▶ RFC1643 Ethernet MIB
- ▶ RMON

NETWORK STANDARDS:

- ▶ IEEE 802.3
- ▶ IEEE 802.3u
- ▶ IEEE 802.3ab
- ▶ IEEE 802.3af
- ▶ IEEE 802.3z
- ▶ IEEE 802.3x
- ▶ IEEE 802.1q
- ▶ IEEE 802.1p
- ▶ IEEE 802.1d/w
- ▶ IEEE 802.1x
- ▶ IEEE 802.3ad

EMI/SAFETY COMPLIANCE:

FCC Part 15 Class A & CE Mark Approval

PoE SPECIFICATIONS:

- ▶ Endpoint with 48VDC power through RJ45 pins 1, 2, 3 and 6
- ▶ PoE-PSE activity LED indicator
- ▶ 185 watts of total power (up to 15.4 watts for 12 ports and up to 7.7 watts for 24 ports)
- ▶ 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
 - Power feeding priority
 - Circuit protection to prevent power interference between ports
 - Supports per port PoE state setting

NETWORK CABLE CONNECTORS:

- RJ45 shielded female ports
- ▶ 10/100Mbps: CAT5 UTP or better
 - ▶ Multimode or singlemode with LC connectors

POWER SUPPLY:

- Input Voltage
- Internal power supply
- ▶ 100 to 240 VAC, 50 to 60Hz
 - ▶ 210W
- Total Power for PoE
- ▶ 185W

OPERATING ENVIRONMENT:

- Ambient Temperature:
- ▶ 32° to 122°F (0° to 50°C)
- Ambient Humidity:
- ▶ 5% to 90% (non-condensing)

MECHANICAL:

- Enclosure:
- ▶ Rack mount
 - ▶ Cooling Method: Fan cooled

PHYSICAL CHARACTERISTICS:

- Dimensions
- ▶ 14.41 x 17.40 x 1.77 in
 - ▶ 366 x 442 x 45mm
- Weight:
- ▶ 6.83lb (3.1kg)

WARRANTY:

Limited Lifetime