

P2000M Series

Gigabit Managed POE Switches

Data Sheet

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2017.02.10

Overview

PoE Switches are Gigabit , managed , 8/16/24-port Gigabit high power (IEEE 802.3at) PoE Switches,




utilizing a compact factor which can be mounted in a 19-inch rack with rack-mounting kits or placed on desktop.

With data and power supported by one unit, the Switches shall reduce cables and eliminate the need for dedicated electrical outlets on the wall,

ceiling or any unreachable place. Auto PoE detection and Plug and play installation makes Gigabit PoE Switch easy to use and

with clear LED indicators to tell the working condition.

Appearance

	<p>P2010M-8POE-150W</p> <p>6*10/100 Base-T ports(POE/POE+); 2*10/100/1000Base-T ports(POE/POE+); 2*1000 Base-X SFP ports; 1*Console port; IEEE 802.3af/at-compliant; Total Power Consumption: 150W.</p>		<p>P2018M-16POE-300W-V4</p> <p>14*10/100 Base-T ports(POE/POE+); 2*10/100/1000 Base-T ports(POE/POE+); 2*1000 Base-X SFP ports; 1*Console port; IEEE 802.3af/at-compliant; Total Power Consumption:300W.</p>
	<p>P2026M-24POE-450W-V4</p> <p>20*10/100 Base-T ports(POE/POE+); 4*10/100/1000 Base-T ports(POE/POE+); 2*1000 Base-X SFP ports; 1*Console port; IEEE 802.3af/at-compliant; Total Power Consumption:450W.</p>		

Features

- **P2010M-8POE-150W:** Max Output Power: 150W, supports at most 8* 802.3af-compliant powered devices(power/port: 15.4W) or 4*802.3at-compliant powered devices(power/port:30W);
- **P2018M-16POE-300W-V4:** Max Output Power: 300W, supports at most 16* 802.3af-compliant powered devices(power/port: 15.4W) or 9*802.3at-compliant powered devices(power/port:30W);
- **P2026M-24POE-450W-V4:** Max Output Power: 450W, supports at most 24* 802.3af-compliant powered devices(power/port: 15.4W) or 14*802.3at-compliant powered devices(power/port:30W);
- Switches can provide -48V DC power for powered devices (PDs), such as IP Phones, WLAN APs, and Bluetooth APs.
- Compatible with both IEEE802.3at(30W) and IEEE802.3af(15.4W), can supply power to PDs under these two standards;
- Transmitting electronic power together with data through a single network cable, free of power lines;
- Automatically detect and supply power to IEEE802.3at and IEEE 802.3af compliant powered devices(PDs);
- Advanced SAFC function, only supply power to IEEE 802.3af/at compliant PDs, no worry about damaging other private standard PoE devices or devices without PoE function;
- Support port power supply prioritization, guarantee the continuous power supply of key nodes;
- Up to 100m network cable transmitting distance, support flexible network expansion without power line deployment concerns. Users can freely fix their wireless APs, IP cameras or other end devices on the wall or ceiling;
- Built-in PSE power supply module, plug-and play design, easy to install;
- High security performance defending against power surge;

- Support short-circuit protection function, the switch will automatically start short-circuit function and cut off the power supply when there is high-current or other power failures, which can efficiently defend against device damage or network failures caused by line fault or wrong installation;
- Energy-saving green design, support auto-switch to standby mode and auto-detect cable length. It will stay in standby mode and save the power when the port is disconnected , or provide a lower transmission power when the network cable is less than 10m;
- Support CLI Management ,SNMP Management, simple WEB management, easy to configure the functions of switches.
- It can be Centralized Managed by the TG Cloud Box .
- PoE schedule to save power.
- Intelligent restart, schedule reset per PoE Port to maintain your IP Cameras,APs and other devices.

Specifications

Items	P2010M-8POE-150W	P2018M-16POE-300W-V4	P2026M-24POE-450W-V4
Fixed Ports	6*10/100 Base-T ports(POE/POE+);	14*10/100 Base-T ports(POE/POE+);	20*10/100 Base-T ports(POE/POE+)
	2*10/100/1000 Base-T ports(POE/POE+);	2*10/100/1000 Base-T ports(POE/POE+);	4*10/100/1000 Base-T ports(POE/POE+)
	2 *1000 Base-X SFP ports	2 *1000 Base-X SFP ports	2 *1000 Base-X SFP ports
PoE standards	IEEE802.3af/at	IEEE802.3af/at	IEEE802.3af/at
Console	1	1	1
Reset	N/A	1	1
Max Output Power(single port)	30W	30W	30W
Total Power Consumption	150W	300W	450W
PoE Pin-out	1/2(+),3/6(-); Customized 4/5(+),7/8(-)		
Switching Capacity	≥20Gbps	≥52Gbps	≥52Gbps
Forwarding Mode	Full wire-speed storage and forwarding		
Forwarding Rate	10M:14880pps/port		
	100M:148809pps/port		
	1000M:1488095pps/port		
Operation Temperature	-20~50°C		
Storage Temperature	-40~70°C		
Operation Humidity	10%~90%(non-condensing)		
Storage Humidity	5%~95%(non-condensing)		
Dimensions	280(L)*180(W)*44(H)mm	440 (L)*285(W)*44.5(H)mm	
Input Power Supply	AC:110-240V~ 50-60Hz/150W	AC:110-240V ~ 50-60Hz/300W	AC:110-240V ~ 50-60Hz/450W
Lightning Protection	4KV	6KV	6KV
Weight	<2Kg	<8Kg	<10Kg
LED Indicator	Power,System,Link/Act,PoE Status		
Energy Saving	Comply with “EEE” Energy Efficient Ethernet		

Application

Item	P2010M-8POE-150W	P2018M-16POE-200W-V4	P2026M-24POE-450W-V4
Standards and Protocols	IEEE 802.3af,Power Over Ethernet		
	IEEE 802.3at,Power Over Ethernet Plus		
	IEEE 802.3u,100BASE-TX		
	IEEE 802.3ab,1000 BASE-T		
	IEEE 802.3z,1000 Base-X		
	IEEE 802.3ad,Static or Dynamic Link Aggregation		
	IEEE 802.3x,Full-Duplex Flow Control		
	IEEE 802.3az,EEE(Energy Efficient Ethernet)		
	IEEE 802.1q,VLAN		
	IEEE 802.1p,QoS/CoS		
	IEEE 802.1d,STP(Spanning Tree Protocol)		
	IEEE 802.1w,Rapid Spanning Tree Protocol		
MAC Address Table	Up to 8K MAC addresses		
	Support auto-update, two-way learning		
Buffer Memory	4.2Mbit		
Jumbo Frame	9K Bytes		
VLAN	Port-based VLANs		
	4K-entry Vlan Table		
	VLANs based on IEEE 802.1q		
Spanning Tree	Support Spanning Tree Protocol		
	Support Rapid Spanning Tree Protocol		
Link Aggregation	Support 8 aggregation groups, and a maximum of 8 ports in each aggregation group		
	Static aggregation and LACP		
Port Mirroring	Support bi-direction port mirroring		



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	RSPAN function for remote mirroring
Port Isolation	Isolation between downlink ports without influence the communication between downlink and uplink ports
Port Flow Control	Back-pressure traffic control under Half-Duplex mode
	IEEE 802.3x traffic control under Full-Duplex mode
Port Rate Restriction	Port-based ingress or egress rate limiting
DHCP	DHCP Snooping
Storm Suppression	Support the suppression of broadcast storm based on forwarding rate
Multicast Control	Support IGMPv1/2/3 and MLDv1/2 Snooping;
Security	Attack Prevention(Land attack\Blat atck\Ping attack\TCP control flag attrack)
	MAC & Port based Security
	IP ACL,MAC ACL,Vlan ACL
	ARP binding
	TCP/UDP port based Security
QOS	802.1p(Port Queuing Priority)
	WRR (Weighted Round Robin)
	Cos/Tos,QOS
PoE	PoE ouput priority Management
	Intelligent restart
	Timed restart
Physic Medium	10/100Base-TX:UTP category 3/4/5 cables(Maximum 100m)
	1000Base-T:UTP Category 5 cable(Maximum 100m)
	1000Base-SX:fiber with 850nm wavelength,supports a max transmission distance of 550m
	1000Base-LX:fiber with 1310nm / 1550nm wavelength,supports a max transmission distance of 80km
Network Cable Deployment	Support Auto-MDIX function, automatically identify straight forward cable and cross-over cable
Negotiation Pattern	Support port auto-negotiation function(automatically negotiate transmission rate and Duplex modes)
Maintenance	Detect the connectivity of network cables
	Uploading or downloading of the configuration data



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	Uploading of upgrade patch
	Support system logs
	WEB-based reset to factory defaults
Management	WEB-based management
	CLI Management (Command Line Interface)
	Telnet
	SNMP
	TG Cloud box management, TG Cloud management

Order Information

Model Number	Detailed information
P2010M-8POE-150W	6*10/100 Base-T ports(POE/POE+)+2*10/100/1000 Base-T ports(POE/POE+) + 2* 1000 Base-X SFP ports;IEEE 802.3af/at-compliant;Total Output Power:150W;
P2018M-16POE-300W-V4	14*10/100 Base-T ports(POE/POE+) +2*10/100/1000 Base-T ports(POE/POE+) +2* 1000 Base-X SFP ports;IEEE 802.3af/at-compliant;Total Output Power: 300W;
P2026M-24POE-450W-V4	20*10/100 Base-T ports(POE/POE+) +4*10/100/1000 Base-T ports(POE/POE+) +2* 1000 Base-X ports;IEEE 802.3af/at-compliant;Total Output Power: 450W;
Fiber Optic Module	Module Information
SFP-GE-SX-MM850	Gigabit SFP Multimode Module-(850nm,0.55km,LC)
SFP-GE-LX-SM1310	Gigabit SFP Single Mode Module-(1310nm,20km,LC)
SFP-GE-LX-SM1550	Gigabit SFP Single Mode Module-(1550nm,80km,LC)



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