

COMMERCIAL MANAGED POE SWITCH

Product Data Sheet



Managed PoE Switch

FR-5M3208P is a new generation Power over Ethernet switch with 8-Port 10/100/1000Base-TX and 2 Gigabit uplink ports that provide stable and reliable Ethernet transmission . With high-quality design and reliability. It can supply power to PD terminal equipment such as wireless AP, webcam, VoIP, and visual intelligent building intercom through network cable and meet the network environment that needs a high-density PoE/PoE++ power supply. It is suitable for hotels, campuses, factory dormitories and small and medium-sized enterprises.

Main Features

- IEEE 802.3af/at/bt PoE Standard, without damaging not-PoE devices.
- Advanced PoE management functions: PoE output setting, Smart PoE, PoE scheduling and PoE Budget Management.
- Priority system for PoE Port, it will supply power to the high priority level port first when the power budget is insufficient.
- Full gigabit L2+ management, easy to manage the PoE network by CLI/Cloud/WebGUI/NMS.
- Build up a redundant PoE network with STP/RSTP/MSTP/ERPSv2.
- RADIUS, IEEE 802.1X, SNMPv3, HTTPs and SSH to enhance network security.
- Bandwidth management prevents unpredictable network status with "Lock Port" to restrict access to authorized MAC addresses.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR&SP+WRR













Fiberroad Managed PoE Switch has L2+ full network management, support IPv4/IPv6 management, static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP/ERPSv2 to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

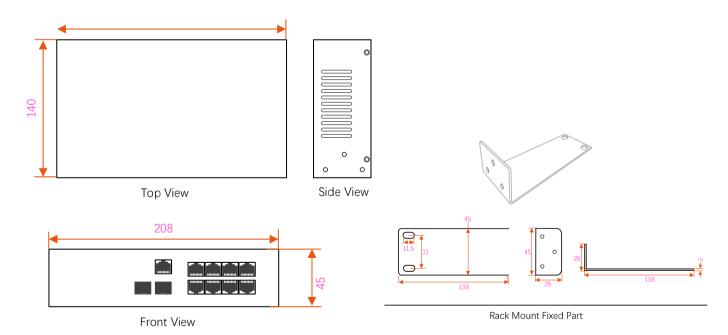
Ethernet Interface						
Model	FR-5M3208P					
Ports	2×Uplink Gigabit SFP					
	8×10/100/1000M Base-TX RJ45					
Port Mode(Tx)	Auto Negotiation Speed Full/Half Duplex Mode Auto MDI/MDI-X Connection					
SFP Port Transmission	Multi-mode: 850nm/0-500M, Single-mode:1310nm/0-40km,1550nm/up to 120km					
RJ45 Port Transmission	100m(using standard CAT5/CAT5e cable)					
Standards	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3z for flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1p for Class of Service IEEE 802.1Q for VLAN Tagging IEEE 802.3ad for Port Trunk with LACP					
Packet Buffer Size	2Mbits					
Maximum Packet Length	Up to 9K					
MAC Address Table	4K					
Transmission Mode	Store and Forward (full/half duplex mode)					
Exchange Property	Delay time: < 7μs Backplane bandwidth: 20Gbps; Packet Forwarding Rate:14.88Mpps					
IGMP Group	4096					
Max. No. of VLAN	256					
VLAN ID Range	VID 1 to 4094					
PoE & Power Supply						
PoE Ports	Port 1 to 8 IEEE802.3af/at/bt @PoE					
Power Supply Pin	Default: 1/2(+), 3/6(-), 4/5(+), 7/8(-)					
Max Power Per Port	90W; IEEE802.3af/at/bt					
Total PWR /Input Voltage	400W(AC100-240V)					
Power Consumption	18W Max (Without PoE load)					
Power Inputs	1					
Power Supply	Internal power adapter with AC100 – 240V 50-60Hz input					
Protection	Overload Current Protection					

Ethernet Software Features						
Redundancy Protocols Support STP/RSTP/MSTP/ERPSv2, Link Aggregation						
Multicast Support	Support IGMP Snooping V1/V2/V3, support GMRP, GVMP,802.1Q					
VLAN	Support IEEE 802.1Q 4K VLAN, support QINQ, Double VLAN,					
Time Management	SNTP					
QOS	Flow-based redirection Flow-based rate limiting Flow-based packet filtering 8*Output queues of each port 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)					
ACL	Port-based Issuing ACL ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc					
POE Management	Total power limit of PoE power supply PoE output power allocation, on/off with at/af/bt PoE output priority configuration PoE working status Scheduling of PoE operation					
Diagnostic Maintenance	Support port mirroring, Syslog, Ping					
Management Function	Support CLI、WEB、SNMPv1/v2/v3,Telnet server for management, EEE, LLDP, DHCP Server/Client(IPv4/IPv6), Cloud/MQTT					
Alarm Management	Support 1 way relay alarm output, RMON, TRAP					
Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Option 82, 802.1X security access, Support user hierarchical management, ACL access control list, Support DDOS, port-based MAC filtering / binding, MAC black holes, IP source protection, Port isolation, ARP message speed limit					
Advance Layer 2+ Features	IPv4/IPv6 Management Static Route					
Physical Characteristics						
Housing	Metal					
IP Rating	IP30					
Dimensions	208mm*140mm*45mm					
Installation Mode	Rack-Mount or Desktop					
Weight	1200g					
Working Environment						
Operating Temperature	0°C~50°C (32to 122 °F)					
Operating Humidity	5%~90% (non-condensing)					
Storage Temperature	-20°C~70°C (-4 to 158 °F)					
MTBF 100,819 Hours						
MTBF Standard Telcordia SR-332 GB 25°C						

Certification & Warranty			
Lightning Protection Lightning protection: 4kV 8/20us			
Certification	CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class , RoHS		
Warranty	3 years, life time technical support		
Package Contents			

Device	1x Smart PoE Switch
Cable	1xDB9 female to RJ45 10-pin Console Cable AC Power Cable (Region Power Plug)
Installation Kit	2x Rack-Mount Fixed Part
Documentation	1 x Quick start guide 1 x Warranty card

Dimensions Unit: mm



Note: Rack Mount Fixed Part are sold Separately.

Precautions

To avoid damage to the equipment and personal injury caused by improper use, please observe the following precautions:

- Keep the power off during installation, wear an anti-static wrist, and ensure that the anti-static wrist is in good contact with the skin to avoid potential safety hazards.
- The switch can work normally under the correct power supply. Please confirm that the power supply voltage matches the voltage indicated by the switch.
- Before powering on the switch, please make sure that the power circuit is not overloaded, so as not to affect the normal operation of the switch and even cause unnecessary damage.
- To avoid the risk of electric shock, do not open the case while the switch is working, even if it is not charged, do not open it yourself.
- Before cleaning the switch, pull out the power plug of the switch. Do not wipe with a wet cloth. Do not use liquid to clean it.
- The equipment installed in the rack is generally from bottom to top to avoid overload installation.
- Avoid placing other heavy objects on the surface of the switch to avoid accidents.

Order Information

Model Number	10/100/1000Base-T(X), RJ45	100/1000Base-X SFP	Optical Port Connector Option	PoE Standard	Input Voltage	Operating Temp.
FR-5M3208	8	2	LC	-	90-264VAC	0 to +50℃
FR-5M3208P	8	2	LC	IEEE802.3af/at	90-264VAC	0 to +50℃
FR-5M3208BT	8	2	LC	IEEE802.3af/at/bt	90-264VAC	0 to +50℃

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For more information

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