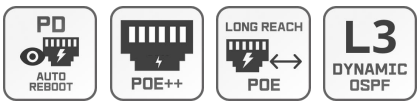
FR-5M3208 • FR-5M3208P • FR-5M3208BT

L2+ Managed 8-port 10/100/1000Base-TX(Non-PoE/PoE+/PoE++)+ 2-port 100/1000Base-SFP Ethernet Switch with AC Power Input, 1U Rack-mount





Main Features

Layer 2+ Features

- Jumbo frame support
- 802.1Q / Q in Q / GVRP / Private VLAN (4K groups)
- STP/RSTP/MSTP for loop prevention
- LACP link aggregation

Software Management

- IPv4 static routing
- QoS with 8 priority queues + rate limiting
- CLI / WebGUI / SNMP v1/v2c/v3, LLDP, syslog

Security

- 802.1X / RADIUS authentication
- IP/MAC based ACL
- DHCP Snooping + Port Security + SSHv2

PoE Functions*

- 802.3at/bt PoE (30W/90W per port)
- Scheduling, priority, PD auto reboot
- Long reach PoE 250m, data rate at 10Mbps
- Real time status monitoring + threshold alarms

Hardware

- 0°C~50°C operation
- AC power input
- NDAA & RoHS

CE FC

Protected by hardware warranty
Advance replacement. Global coverage.

View policy on Fiberroad's website.

Product Specifications

FR-5M3208 • FR-5M3208P • FR-5M3208BT

Product	FR-5M3208	FR-5M3208P	FR-5M3208BT
Interface			
RJ45 Ports	8x10/100/1000BASE-T		
SFP Ports	2x100/1000BASE-X		
Console	1x RJ45-to-RS232 Serial Port(115200)		
Electrical and Mechanical			
Input Voltage	AC 100-240V, 50/60Hz 0.15A		
Power Consumption	12 Watts Max (without PoE Load)		
PoE Ports	\	Port 1 to 8 IEEE802.3 af/at	Port 1 to 8 IEEE802.3 af/at/bt
PoE Power Supply Type	End-span		
Power Supply Pin	\	1/2(+),3/6(-)	1/2(+), 3/6(-) or 4/5(+), 7/8(-)
Max Power Per Port	\	30W	90W
Max. PoE Power Budget	\	108W	108W (Default); 388W (Optional)
Surge Protection	±6kV DC, ±4kV RJ45	±6kV DC, ±6kV RJ45	
Enclosure	IP30 Metal		
Dimension	208 x 140 x 45mm, 0.86kg		
Standards			
IEEE 802.3	10BaseT		
IEEE 802.3u	100BaseT(X) and 100BaseFX		
IEEE 802.3ab	1000BaseT(X)		
IEEE 802.3x	flow control		
IEEE 802.1p	Class of Service		
IEEE 802.1Q	VLAN Tagging		
IEEE 802.1x	Authentication		
IEEE 802.3ad	Port Trunk with LACP		

Product Specifications

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Product	FR-5M3208	FR-5M3208P	FR-5M3208BT
Standards			
IEEE 802.1D	Spanning Tree Protocol		
IEEE 802.1w	Rapid Spanning Tree Protocol		
IEEE 802.1s	Multiple Spanning Tree Protocol		
IEEE 802.1ad	Q-in-Q tunneling		
IEEE 802.3az	Energy Efficient Ethernet		
Switching			
Switch Architecture	Store-and-Forward		
Switch Fabric	36Gbps/non-blocking		
Forwarding Rate	11.9Mpps(64-byte packet size)		
Packet Buffer Size	4 Mbits		
Maximum Packet Length	10K bytes		
MAC Address Table	8K entries, automatic source address learning and aging		
Flow Control	IEEE 802.3x pause frame for full duplex, Back pressure for half duplex		
Software Features			
Port Configuration	Port(Admin Status) disable/enable Copper Port: Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Fiber Port: 100M/1000M speed selection Flow Control disable/enable Power saving(EEE) disable/enable Each port description		
Port Status	Display each ports' speed duplex mode, link status, flow control status, auto negotiation status, Fiber Port Information, Port Traffic		
Port Mirroring	Source Ingress/ Egress Port/ Both, Many-to-1 monitor		
VLAN	Up to 4K VLAN groups, out of 4094 VLAN IDs IEEE 802.1Q tag-based VLAN IEEE 802.1AD Q-in-Q tunneling(Double VLAN) GVRP(Generic VLAN Registration Protocol)		
Link Aggregation	IEEE 802.3ad LACP/Static trunk Supports 6 trunk groups with 4 ports per trunk		

Product Specifications

FR-5M3208 • FR-5M3208P • FR-5M3208BT

Product	FR-5M3208	FR-5M3208P	FR-5M3208BT
Software Features			
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol		
Multicast	Dynamic/Static Multicast groups IGMP Snooping v1,2,3 Port-based IGMP Snooping Fast Leave GMP Querier		
Rate Limitation	Per Port Rate Limitation Ingress: 16-1000000 kbps/Egress: 16-1000000 kbps		
Ring	ITU-T G.8032 ERPS, Recovery time<20ms		
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching -Port number -802.1p priority -802.1Q VLAN tag -DSCP/TOS field in IP Packet		
ACL	IP-based ACL/MAC-based ACL ACL based on: -MAC Address -IP Address -Ethertype -Protocol Type -VLAN ID -DSCP -802.1p Priority		
Security	Port Security Static MAC address IEEE 802.1x port-based network access control RADIUS authentication DHCP Snooping, DHCP option 82		
PoE Management Functions			
PoE System Management	PoE Port status monitoring Total PoE power budget control PoE usage threshold and temperature threshold PoE port Priority PoE mode (PoE/PoE+/PoE++) PD reboot (Zero Traffic Duration)		
PoE Schedule	Absolute/Periodic Mode		
Layer 3 Functions			
IP Interfaces	Max. 8 VLAN interfaces		
Routing Table	Max.32 routing entries		

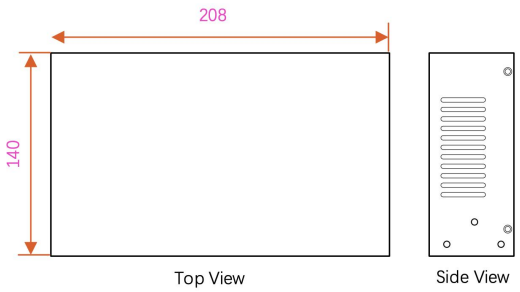
Product Specifications

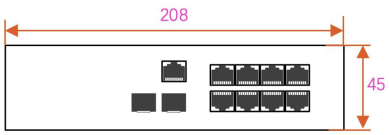
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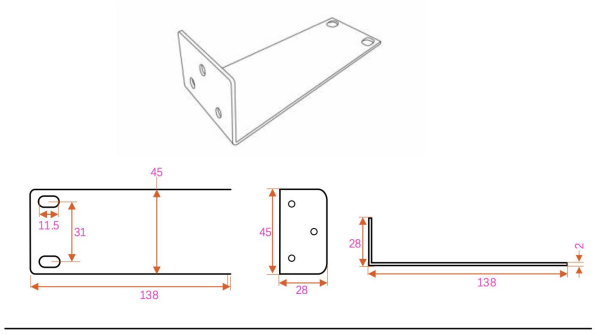
Product	FR-5M3208	FR-5M3208P	FR-5M3208BT
Layer 3 Functions			
Routing	IPv4 software static routing		
Management			
Basic Management Interface	Console; Telnet; Web browser; SNMPv1/v2c		
Secure Management Interface	SSHv2, TLSv1.2, SNMPv3		
System Management	Firmware Upgrade by HTTP protocol through Ethernet network Configuration upload/download through HTTP Remote syslog, System log LLDP protocol, SNTP PREVIEW NMS Alarm(Relay, Led, Temperature, Trap, Power)		
Environmental			
Operating Temperature	0 °Cto 50 °C		
Storage Temperature	-20°Cto 70°C		
Operating Humidity	5%~95% (non-condensing)		
MTBF	147,595 hours (Non-PoE Models) 126,424 hours (PoE Models) @MIL-HDBK-217F GB		
Cooling	Passive Cooling, Fanless Design		
Noise Level	0 dBA		
Regulatory & Warranty			
ISO	Manufactured in ISO-9001facility		
Safety	IEC62368-1:2020+A11:2020		
EMI	FCC Part 15B Class A, IEC 61000-3-2		
EMS	IEC61000-4-2 ESD: Contact:±8kV, Air:±15kV IEC61000-4-5 Surge: Power: ±6kV; RJ45:±4kV/±6kV(PoE)		
Environmental	RoHS 2011/65/EU Annex II(EU)		

Product Specifications

Dimension (Unit: mm)







Ordering Information

Available Model	Description	Input Voltage	Operating Temp.
FR-5M3208	L2+ Managed 8-port 10/100/1000Base-TX + 2-port 100/1000Base-SFP Ethernet Switch with AC Power Input, 1U Rack-mount	AC100-240V	0 to +50°C
FR-5M3208P	L2+ Managed 8-port 10/100/1000Base-TX (PoE+) + 2-port 100/1000Base-SFP Ethernet Switch with AC Power Input, 1U Rack-mount	AC100-240V	0 to +50°C
FR-5M3208BT	L2+ Managed 8-port 10/100/1000Base-TX (PoE++) + 2-port 100/1000Base-SFP Ethernet Switch with AC Power Input, 1U Rack-mount	AC100-240V	0 to +50°C

Optional Accessories (to be purchased separately)	
SFP Optical Transceiver	Please select your SFP on our SFP Modules page for details.

Package Contents	
Device	1x Ethernet Switch
Cable	1x DB9 female to RJ45 10-pin AC Power Cable (Regional Power Plug)
Installation Kit	2x Rack-Mount Kits

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