FR-5M34F8

L2+ Managed 8-port 10/100/1000Base-TX + 16-port 100/1000Base-SFP + 4-port 1000Base-SFP or 1000Base-TX Combo Fiber Ethernet Switch with AC Power Input



L3 DYNAMIC OSPF

REDUNDANT

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

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-5M34F8

Product	FR-5M34F8
Interface	
RJ45 Ports	8x10/100/1000BASE-T + 4x10/100/1000BASE-T (Combo with SFP)
SFP Ports	16x100/1000BASE-X 4x100/1000BASE-X (Combo with RJ45)
Console	1x RJ45-to-RS232 Serial Port(115200)
Electrical and Mechanical	
Input Voltage	AC 100-240V, 50/60Hz 0.15A
Power Consumption	25 Watts Max (without PoE Load)
Surge Protection	±4kV DC, ±4kV RJ45
Enclosure	IP30 Metal
Dimension	440 x 300 x 45mm, 4.05kg
Standards	
IEEE 802.3	10BaseT
IEEE 802.3u	100BaseT(X) and 100BaseFX
IEEE 802.3ab	1000BaseT(X)
IEEE 802.3z	1000BaseSX/LX/LHX/ZX
IEEE 802.3x	Flow Control
IEEE 802.3ad	Port Trunk with LACP
IEEE 802.1Q	VLAN Tagging
IEEE 802.1ad	Q-in-Q tunneling
IEEE 802.1p	Class of Service
IEEE 802.3az	Energy Efficient Ethernet
IEEE 802.1ab	Link Layer Discovery Protocol
IEEE 802.1D	Spanning Tree Protocol
IEEE 802.1w	Rapid Spanning Tree Protocol

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Standards	
IEEE 802.1s	Multiple Spanning Tree Protocol
IEEE 802.1X	Authentication
Switching	
Switch Architecture	Switch Architecture
Switch Fabric	56Gbps/non-blocking
Forwarding Rate	41.66Mpps(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
Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol
Spanning Tree Protocol	Dynamic/Static Multicast groups IGMP Snooping v1,2,3 Port-based IGMP Snooping Fast Leave GMP Querier

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Software Features	
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<50ms
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
Layer 3 Functions	
IP Interfaces	Max. 8 VLAN interfaces
Routing Table	Max.32 routing entries
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)

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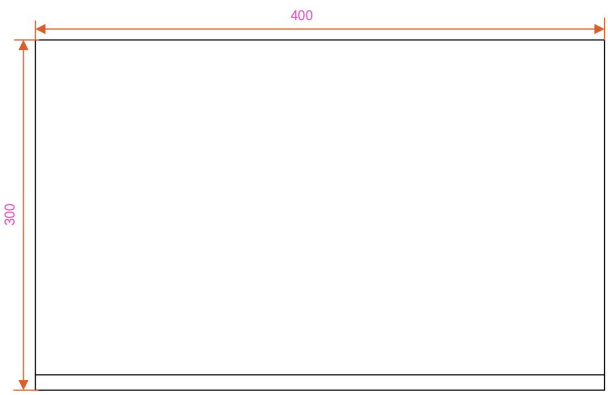
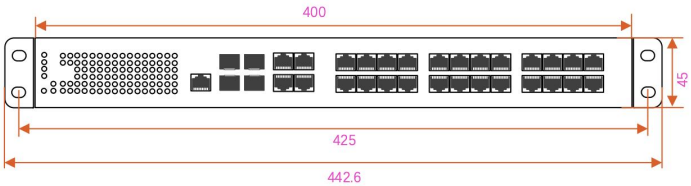
Product	FR-5M34F8
Environmental	
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 70°C
Operating Humidity	5%~95% (non-condensing)
MTBF	147,595 hours (Non-PoE Models) 126,424 hours (PoE Models) @MIL-HDBK-217F GB
Cooling	Passive Cooling, Fanless Design
Noise Level	0 dBA
Regulatory	
ISO	Manufactured 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)z

Dimension (Unit: mm)



Top View



Product Specifications

Ordering Information

Available Model	Description	Input Voltage	Operating Temp.
FR-5M34F8	L2+ Managed 8-port 10/100/1000Base-TX + 16-port 100/1000Base-SFP + 4-port 1000Base-SFP or 1000Base-TX Combo Ethernet Switch with AC Power Input, 1U Rack-mount	AC 100-240V	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	1 x DB9 female to RJ45 10-pin AC Power Cable (Regional Power Plug)
Installation Kit	2 x Rack-Mount Kits

Specifications are subject to change without notice. Fiberroad Technology Co., Ltd. makes no warranties, either expressed or implied, regarding the information contained herein. Please contact us for the latest product information.

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