FR-5T44F8

L3 Managed 16-port 100/1000Base-SFP + 4-port 10GBase-SFP + 8-port 10/100/1000Base-SFP or 10/100/1000Base-TX Combo Ethernet Switch with AC Power Input, 1U Rack-mount





Main Features

Layer 2+ Features

- Jumbo frame support
- 802.1Q / Q in Q VLAN (4K groups)
- STP/RSTP/MSTP for loop prevention
- LACP link aggregation + ERPS ring redundancy

Security

- 802.1X / RADIUS / TACACS+ AAA
- ACL (L2/L3/L4, MAC/IPv4/IPv6 based)
- DHCP Snooping + Option 82/43
- SSHv2, HTTPS/TLS, storm control

Layer 3 & Management

- OSPFv2, RIPv2, Static IPv4/IPv6 routing
- QoS with 8 priority queues + rate limiting
- CLI / Telnet / WebGUI / SNMPv3
- LLDP / LLDP MED, RMON, Dual Images
- DHCP Server/Client, NTP, Syslog

Hardware

- 0°C~50°C operating temperature
- AC power input
- NDAA & RoHS compliant

CE FC

Protected by hardware warranty
Advance replacement. Global coverage.

View policy on Fiberroad's website.

Product Specifications

FR-5T44F8

Product	FR-5T44F8
Interface	
RJ45 Ports	8 x 10/100/1000Base-TX (combo with SFP port)
SFP Ports	16 x 1000Base-X SFP; 4 x 10G SFP+; 8 x 1000Base-X SFP (combo with RJ45)
Console	1x RJ45-to-RS232 Serial Port(115200)
Electrical and Mechanical	
Input Voltage	AC 100-240V, single input; 3-pin AC socket
Power Consumption	24Watts Max
Surge Protection	±4kV AC, ±4kV RJ45
Enclosure	IP40 Aluminium case
Dimension	400 x 300 x 45 mm (1U rack-mount), 4.12kg
Standards	
IEEE 802.3	10Base-T
IEEE 802.3u	100Base-T(X) and 100Base-FX
IEEE 802.3ab	1000Base-T(X)
IEEE 802.3z	1000Base-SX/LX/LHX/ZX
IEEE 802.3ae	10GBaseSR/LR/ER/ZR
IEEE 802.3x	Flow Control
IEEE 802.3ad	Port trunk with LACP
IEEE 802.1D-2004	Spanning Tree Protocol
IEEE 802.1w	Rapid Spanning Tree Protocol
IEEE 802.1s	Multiple Spanning Tree Protocol
IEEE 802.1p	Class of Service
IEEE 802.1Q	VLAN tagging
IEEE 802.1X	Authentication

Product Specifications

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Switching	
Switch Architecture	Store and forward (full/half duplex), latency <7μs
Switch Fabric	128Gbps backplane bandwidth
Forwarding Rate	95 Mpps
Packet Buffer Size	12Mbits
Maximum Packet Length	Up to 10K bytes
MAC Address Table	16K
Flow Control	IEEE 802.3x flow control
Software Features	
Port Configuration	Auto-negotiation, full/half duplex, auto MDI/MDI-X
Port Status	Link/ACT, port speed, DDM, UDLD
Port Mirroring	Supported (port mirroring)
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
Spanning Tree Protocol	STP/RSTP/MSTP, Auto Edge Port, BPDU Filtering, Self-Loop Detection
Multicast	IGMP Snooping v1/v2/v3, IGMP Querier v2/v3, 4096 IGMP groups, Multicast VLAN Registration (MVR)
Rate Limitation	N:1
Ring	ITU-T G.8032 ERPS, Recovery time <50ms
QoS	8 priority queues/port; scheduling: WRR, WFQ, strict priority, hybrid (WRR+SP or WFQ+SP); CoS: port-based, 802.1p, IP TOS precedence, IP DSCP; trusted QoS; rate limitation
ACL	L2/L3/L4, MAC-based, IPv4-based, IPv6-based
Security	Broadcast storm control, HTTPS/SSLv2v3, TLSv1, RADIUS, TACACS+, AAA, SSHv1/v2, DHCP Snooping Option 43/82, 802.1X, DoS protection, port-based MAC filtering/binding, MAC whitelist, hierarchical user management, ACL

Product Specifications

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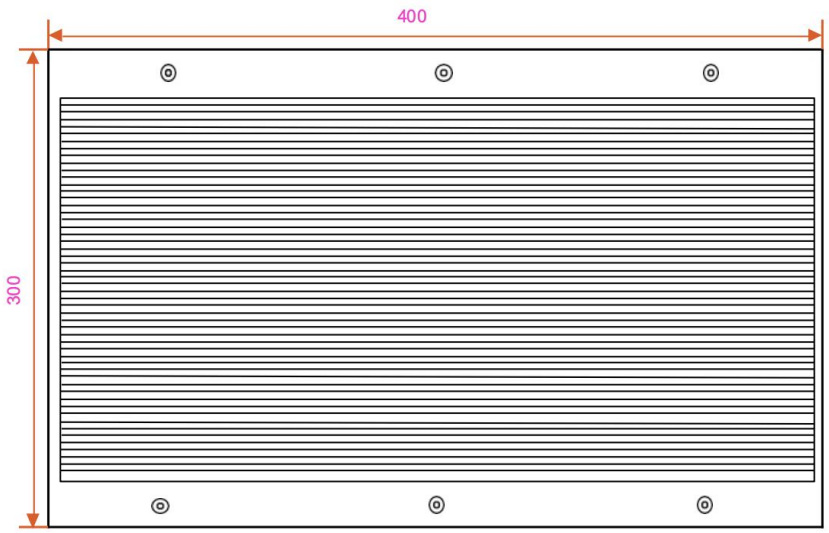
Product	FR-5T44F8
Layer 3 Functions	
IP Interfaces	IPv4 / IPv6
IP Services	ARP, DHCP Server/Client
Routing	OSPFv2, RIPv1/v2, static route
Management	
Basic Management Interface	CLI (Console/Telnet RFC854), WebUI (HTTPS), SNMPv1/v2c/v3
Secure Management Interface	HTTPS/SSL, SSHv1/v2, TLSv1, management VLAN, management ACL (256)
System Management	Time: local, SNTP, NTP; Syslog, RMON, LLDP/LLDP-MED, UDLD, ping; firmware upgrade/backup, dual images, multiple configurations, config download/backup (TFTP, HTTP, UART); MIB-I/II, Bridge MIB, RMON MIB, Entity MIB, Interface Group MIB
Environmental	
Operating Temperature	0°C to 55°C
Storage Temperature	-40°C to 85°C
Operating Humidity	5% to 95% (non-condensing)
MTBF	> 250,000 hours @Telcordia (Bellcore) GB
Cooling	Passive Cooling, Fanless Design
Noise Level	0dBA
Regulatory	
Safety	EN60950-1, UL60950-1, CSA C22.2 No.60950-1, UL508
EMI	FCC Part 15 Class A, CE-EMC/LVD
EMS	EN61000-4-2 (ESD): Level 4 IEC61000-4-4 (EFT): Level 4 IEC61000-4-5 (Surge): Level 4 IEC61000-4-6 (CS): Level 3 IEC61000-4-8 (PFMF): Level 5 EN61000-4-3 (RS): Level 4
shock	IEC60068-2-27
vibration	IEC60068-2-6

Product Specifications

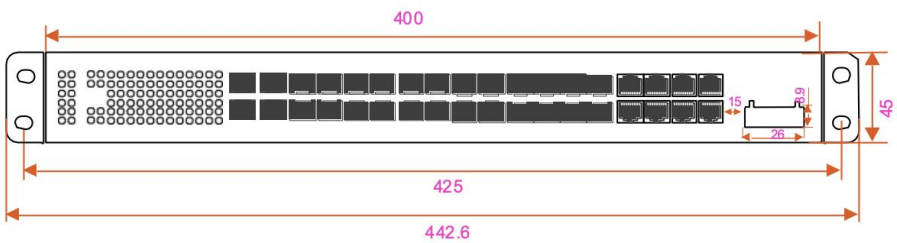
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Product	FR-5T44F8
Regulatory	
free fall	IEC60068-2-31
Environmental	RoHS 2011/65/EU Annex II(EU)

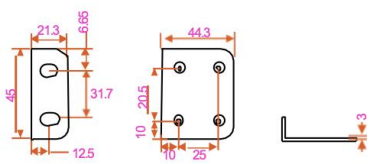
Dimension (Unit: mm)



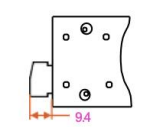
Top View



Front View



Rack Mount Kit



(Side View)
Height of projections

Product Specifications

Ordering Information

Available Model	Description	Input Voltage	Operating Temp.
FR-5T44F8	L3 Managed 16-port 100/1000Base-SFP + 4-port 10GBase-SFP + 8-port 10/100/1000Base-SFP or 10/100/1000Base-TX Combo Ethernet Switch with AC Power Input, 1U Rack-mount	100-240VAC	0 to 55°C

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

Package Contents	
Device	1 x Ethernet Switch
Cable	1 x DB9 female to RJ45 10-pin
Installation Kit	2 x Rack-Mount Kits

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