

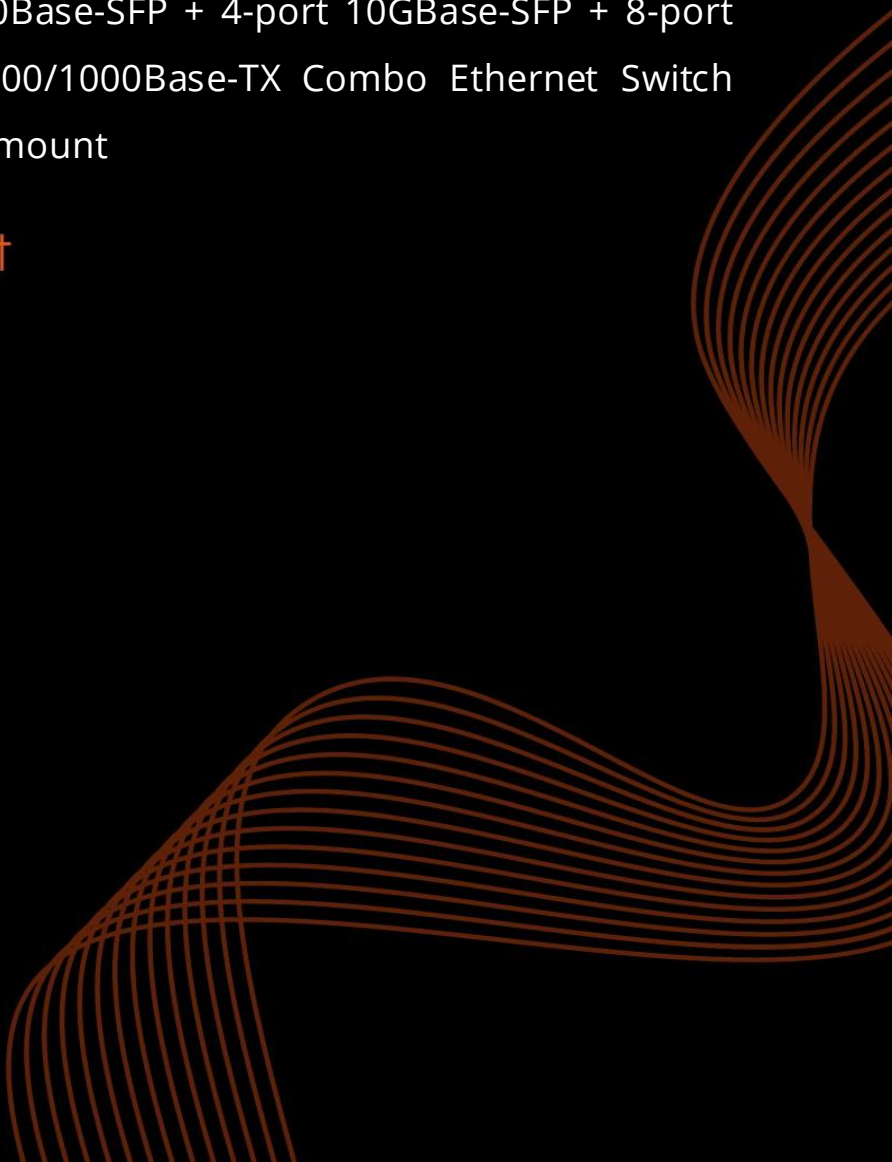
FIBERROAD

L3 Managed Fiber Switches

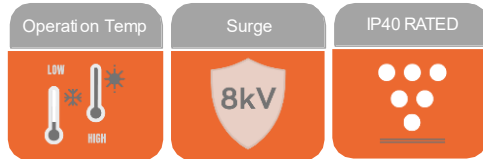
FR-5T44F8

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

Product Data Sheet



FR-5T44F8



Main Features

- Layer 3 Model support OSPFv2, RIPv2, Static Route
- TACACS+, SNMPv3, IEEE 802.1X, HTTPS and SSH to enhance network security
- Link Aggregation, STP/RSTP/MSTP/ERPS for network redundancy
- ROMON for proactive and efficient network monitoring
- Fanless, IP40 Rating
- AC power input, anti-reverse connection, overcurrent protection

Overview

The **L3 Managed Ethernet Switch** is designed for high-performance industrial networking applications requiring reliable data transmission and flexible network architecture. Built on mature switching technologies and open networking standards, the switch delivers stable and efficient Ethernet communication in demanding environments.

The switch features **4 × 10 Gigabit SFP+ uplink ports**, **16 × Gigabit SFP fiber ports**, and **8 × Gigabit combo ports supporting either 10/100/1000Base-T or 1000Base-X SFP**, providing flexible connectivity for both copper and fiber network deployments. With integrated **Layer 3 routing capabilities**, it supports efficient traffic management and network segmentation across complex industrial infrastructures. Designed for industrial environments, the switch supports **AC power input** and is enclosed in a rugged **IP40-rated metal housing**.

Product Specifications

Ethernet Interface	
Model	FR-5T44F8
Ports	4×10Gigabit SFP plus + 16×1000M Base-X SFP + 8×10/100/1000M Base-TX or 8×1000M Base-X SFP Combo
Port Mode(Tx)	Auto-Negotiation Full/Half Duplex Mode Auto MDI/MDI-X Connection
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 802.3ae for 10 Gigabit Ethernet IEEE 802.3x 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 802.1X for authentication IEEE 802.3ad for Port Trunk with LACP
Packet Buffer Size	12Mbits
Maximum Packet Length	Up to 10K
MAC Address Table	16K
Transmission Mode	Store and Forward (full/half duplex mode)
Exchange Property	Delay time: < 7μs Backplane bandwidth: 128Gbps
IGMP Group	4096
Max. No. of VLAN	256
VLAN ID Range	VID 1 to 4094
PoE & Power Supply	
Power Consumption	24 Watts Max(without PoE load)
Power Inputs	1
Input Voltage	100-240VAC input
Connector	AC: 3 Pin AC Socket
Protection	Overload Current Protection, Reverse Polarity Protection
Physical Characteristics	
Housing	Aluminum case
IP Rating	IP40
Dimensions	400mm×300mm×45mm
Installation	Rack Mount
Weight	2800g

Product Specifications

Environmental

Operating Temperature	0°C~55°C
Operating Humidity	5%~95% (non-condensing)
Storage Temperature	-40°C~85°C
MTBF	>250,000@Telcordia(Bellcore)GB
Heat Dissipation	75 BTU/h(Non-PoE Load) 1672 BTU/h(with MAX PoE Load)
Cooling	Passive Cooling Fanless Design
Noise Level	0 dBA

LED	State	Description
PWR (P1&P2)	ON	Power is being supplied
	OFF	Power is not being Supplied.
RUN	Blinking	The system is running well
	OFF	The system is running unwell
R.O.	ON	Ring Owner
	OFF	Not Ring Owner
RING	ON	Ring is enabled
	OFF	Ring is disabled
Link/ACT (1-28)	ON	Port connection is active
	Blinking	Data transmitted
	OFF	Port connection is not active.
RJ45 Port Speed	ON	1000M is running
	OFF	No 1000M is running
ALM	ON	Has alarm information
	OFF	No alarm information

Certification Standard

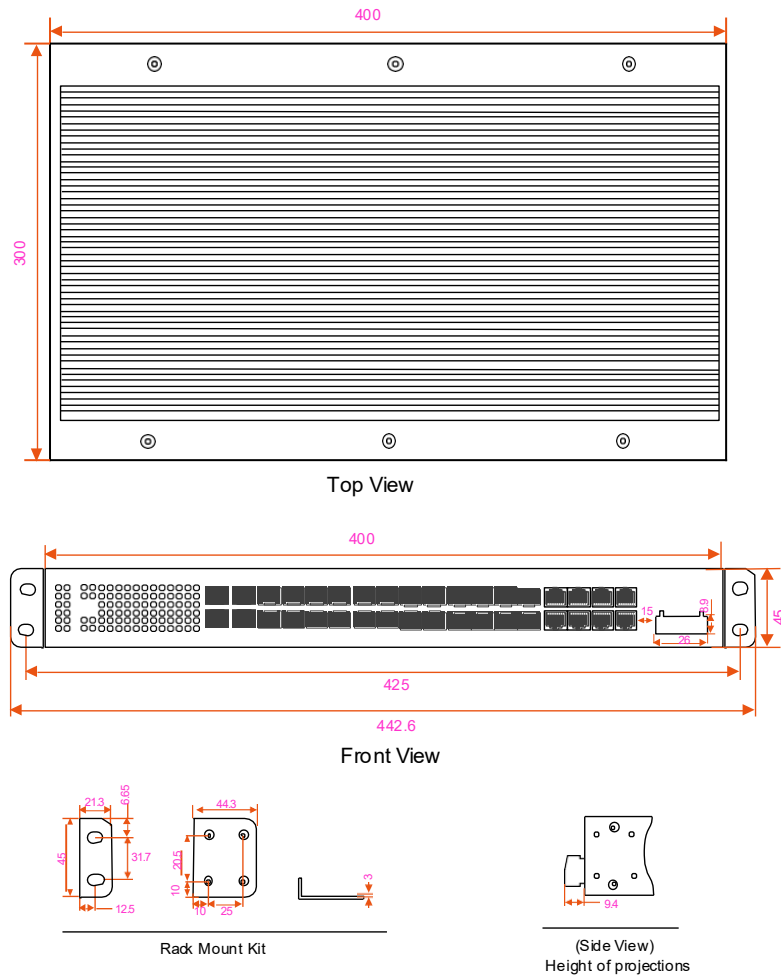
EMC/EMI/EMS	FCC Part15 Class A CE-EMC/LVD RoHS EN61000-4-2 (ESD):LEVEL 4 IEC 6100-4-2 (EFT):LEVEL 4 IEC 6100-4-2 (Surge): LEVEL 4 IEC 6100-4-2 (CS) : LEVEL 3 IEC 61000-4-2(PFMP) : LEVEL 5 EN61000-4-3 (RS):LEVEL 4
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Freefall	IEC60068-2-31
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1, UL 508

Product Specifications

Package Contents

Device	1x Ethernet Switch
Cable	1x DB9 female to RJ45 10-pin
Installation Kit	2x Rack-Mount Kits
Documentation	1 x Quick Start guide 1 x Warranty card 1x Product notice

Dimensions Unit: mm



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	AC100-240V	0 °C to 55 °C

Optional Accessories (to be purchased separately)

SFP Optical Transceiver	
(S)=SFP Option	Please select your SFP on our SFP Modules page for details.
Armored Fiber Patch Cable / LAN Cable	
FRPC-A-LC	Armored LSZH LC UPC to LC UPC Duplex OS2 single mode 7.0mm for Outdoor Application , 1-50m
FRLC-A-CAT6	Armored Cat6 Snagless shielded(SFTP) Ethernet Network Patch Cable, 26AWG, 1000Base-T, 0.5m – 3m

Precautions

To prevent equipment damage or personal injury caused by improper operation, please observe the following precautions:

- ❖ Turn off the power before installation. Wear an anti-static wrist strap and ensure proper skin contact to prevent electrostatic discharge (ESD) damage.
- ❖ Ensure the power supply voltage matches the voltage specified on the switch.
- ❖ Before powering on the switch, verify that the power circuit is not overloaded to avoid abnormal operation or equipment damage.
- ❖ Do not open the chassis while the switch is operating. To avoid the risk of electric shock, do not disassemble the device.
- ❖ Disconnect the power before cleaning. Do not use a wet cloth or liquid cleaners.
- ❖ When installing in a rack, mount equipment from bottom to top to prevent overloading.
- ❖ Do not place heavy objects on the switch.

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