RCFE1F1-IND Series
1x 10/100Base-TX and 1x 100Base-FX SFP Ethernet Switch

The Rancent RC-FE1F1-IND is a cost-effective Industrial Unmanaged Fast Ethernet Switch equipped with one 10/100Mbps RJ45 port and one 100Mbps SFP (fiber) port. For fast and efficient connectivity from the network edge device to a backbone switch or server, the fast Ethernet switch is designed to extend existing LANs through one 100Base-FX/LX/EX/BX SFP interface using either one or two multimode or singlemode fibers.The switches are also designed with a redundant power supply system to further enhance network reliability and stability.Housed in rugged DIN rail or wall mountable enclosures, the switches are well suited for harsh environments such as industrial security, system automation applications and intelligent transportation systems (ITS).

Typical Applications

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Self-healing Fast Ethernet backbone networks
- Networks using Ethernet devices such as network cameras, access control, intercoms, etc

Product Features

- 1-Port 10/100Base-T Fast Ethernet RJ-45 Port
- 1-Port 100Base-SX/LX/EX/BX SFP Type Slot
- Non-blocking store-and-forward switching
- RJ45 Port Supports 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- Prevents Packet Loss w/Back Pressure (Half-Duplex) and
  IEEE 802.3x PAUSE Frame Flow Control (Full-Duplex)
- Available for operation in Ring or point-to-point configuration
- Available for operation over singlemode or multimode fiber over a variety of link budget
- Redundant dual power supply inputs 48/52 VDC
- 4KV Ethernet Surge Protection for harsh environment
- -40°C to 80°C (-40°F to 176°F) wide range operating temperature
- Compact, corrosion resistant case attaches to a standard DIN Rails

Specifications

Physical Ports

Copper Ports (RJ45)	1 x 10/100Base-T
SFP Uplink Ports	1 x 100Base-FX/LX/EX/BX SFP
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate

Ethernet

Switch Architecture	Store-and-forward
Switch Bandwidth	4Gbps (non-blocking)
MAC Address	2K entries
Maximum Frame Size	1536 Bytes (Jumbo Frames)
Flow Control	Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex)

Fiber

Data Rate	100Base-FX 802.3u
Connector	SFP (Mini-GBIC) port
Fiber Type/Distance	Varies by SFP module

LED Indicators & Switch

Power	On/Green
Ethernet	Link/Activity - Green
SFP Ports (FX1)	On/Blink - Green

Electrical and Mechanical

DC Power Input Voltage	DC 9~52V, Auto-sensing
Full Load Power Consumption	9 Watts
Dimensions	112.7x 94 x 36mm
Case	IP44 Metal Case
Housing	DIN Rail Mounting

Environmental

MTBF	>100,000 hours
Operating Temperature	-40°C~+80°C
Storage Temperature	-40°C~+80°C
Relative Humidity	0%~95% (non-condensing)

Standards Compliance

Regulatory Standards	CE; FCC Part 15 Class A
	IEEE 802.3i 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3x Flow Control and Back pressure
IEC Standards	IEC60068-2-32 (Free fall)
	IEC60068-2-27 (Shock)
	IEC60068-2-6 (Vibration)

Typical Application