

RCINGE4F2-POE Series

4x 10/100/1000Base-TX + 2x 1G SFP 802.3at PoE+ Ethernet Switch

The Rancent RCINGE4F2-POE is an Industrial Gigabit PoE+ Unmanaged Switch equipped with four 10/100/1000Mbps RJ45 ports with PoE+ (30w) capabilities and two 1000Mbps SFP (fiber) ports. For efficient and reliable connectivity from the network edge device to a backbone switch or server, the Gigabit switch is designed to extend existing LANs through two 1000Base-SX/LX/EX/BX SFP interfaces using either one or two multimode or singlemode fibers. Full power POE-at (30w) is applied to all 4-ports with no power sharing, and added port circuit protection isolates and prevents power interference between ports.



Typical Applications

- PoE+ operation of IP Cameras, with pan-tilt-zoom capability
- PoE+ operation of IP cameras with heated/cooled housings
- PoE+ operation of transportation-specific/ITS field equipment
- Any networks using Power over Ethernet devices such as IP cameras, intercoms, access control, telephones, variable message signs, etc

Product Features

- 4-Port 10/100/1000Base-T Gigabit Ethernet RJ-45 Ports
- 2-Port 1000Base-SX/LX/EX/BX SFP Type Slots
- PoE Compatible: IEEE 802.3af and 802.3at compliant for PoE and PoE Plus
- RJ45 Port Supports 10/100/1000Mbps-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)	4 x 10/100/1000Base-T
SFP Uplink Ports	2 x 1000Base-SX/LX/EX/BX SFP
Port Configuration	Auto MDI/MDI-X
Port Speed	Auto-negotiate

Ethernet

Switch Architecture	Store-and-forward
Switch Bandwidth	10Gbps (non-blocking)
MAC Address	4K entries
Maximum Frame Size	9.6K Bytes (Jumbo Frames)
Flow Control	Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex)

Fiber

Data Rate	1000Base-SX/LX/EX/BX
Connector	SFP (Mini-GBIC) port
Fiber Type/Distance	Varies by SFP module

POE

PoE Standard	IEEE 802.3af IEEE 802.3at
Power Supply Type	End-Span (PSE)
PoE Power Budget	150 Watts
PoE Power Output	48VDC, 15.4 watts 52VDC, 30 watts
Power Pin Assignment	1/2(+), 3/6(-) default

LED Indicators & Switch

Power	On/Green
Ethernet	Link/Activity - Green
SFP Ports (FX1/FX2)	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 802.3u 100Base-TX IEEE 802.3ab 1000Base-TX IEEE 802.3x Flow Control and Back pressure IEEE 802.3af POE IEEE 802.3at POE
IEC Standards	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

Typical Application

