

RCGE8F2-IND Series 8x 10/100/1000Base-TX and 2x 1000Base-FX SFP Ethernet Switch

The Rancent RC-GE8F2-IND is an Industrial Gigabit Unmanaged Switch equipped with eight 10/100/1000Mbps RJ45 ports and two 1000M SFP (fiber) uplink ports that provide stable and reliable Ethernet transmission. For fast and efficient connectivity from the network edge device to a backbone switch or server, the Gigabit switch is designed to extend existing LANs through one 1000Base-SX/LX/EX/BX SFP interface using either one or two multimode or singlemode fibers. These switches are also designed with a redundant power supply 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 ITS.



Typical Applications

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

Product Features

- 8-Port 10/100/1000Base-T Gigabit Ethernet RJ-45 Ports
- 2-Port 1000Base-SX/LX/EX/BX SFP Type Slots
- Non-blocking store-and-forward switching
- 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

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|---------------------|------------------------------|
| Copper Ports (RJ45) | 8 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

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|---------------------|---|
| Switch Architecture | Store-and-forward |
| Switch Bandwidth | 40Gbps (non-blocking) |
| MAC Address | 8K entries |
| Maximum Frame Size | 9.6K Bytes (Jumbo Frames) |
| Flow Control | Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex) |

Fiber

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

LED Indicators & Switch

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|---------------------|-----------------------|
| Power | On/Green |
| Ethernet | Link/Activity - Green |
| SFP Ports (FX1/FX2) | On/Blink - Green |

Electrical and Mechanical

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|-----------------------------|------------------------|
| DC Power Input Voltage | DC 9~52V, Auto-sensing |
| Full Load Power Consumption | 9 Watts |
| Dimensions | 156 x 114.8 x 60mm |
| 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

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|----------------------|--|
| 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 |
| IEC Standards | IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration) |

Typical Application

