

# RCGE2F2-SFP Series 10/100/1000Base-T to Gigabit SFP 4 port Ethernet Switch

The Rancent RCGE2F2-SFP 4 port Ethernet switch is designed to transmit and receive 10/100/1000 Mbps data over optical fiber through user selectable SFP modules. These devices accept two 10/100/1000 Mbps electrical inputs and convert this to two 1000 Mbps SFP optical outputs. These units use SFP modules for fiber and connector type, and distance. The RCGE2F2-SFP supports MDI/MDIX auto detection, eliminating the need for crossover cables. LED indicators confirm operational status. All these Gigabit models are environmentally hardened with no electrical or optical adjustments.



### **Typical Applications**

- Any network utilizing a mix of copper and fiber
- Industrial IP connectivity and communication
- Copper to fiber Ethernet switch
- Networks using Ethernet devices such as network cameras, access control, intercoms, etc

#### **Product Features**

- 2-Port 10/100/1000Base-T Fast Ethernet RJ-45 Port
- 2-Port 1000Base-SX/LX/EX/BX SFP Optical Port
- Complies with the IEEE 802.3 standard
- 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)
- Uses interchangeable SFP for fiber type, distance and connector (Ordered separately).
- Distances up to 80 km with optional SFPs
- Available for operation over singlemode or multimode fiber over a variety of link budget
- Available for operation over 1 or 2 fibers.
- No in-field optical adjustment required

## Specifications

Physical Ports		LED Indicators & Switch	
Copper Ports (RJ45)	2 x 10/100/1000Base-T	Power	On/Green
Optical Ports	2 x 1000Base-SX/LX/EX/BX SFP	Ethernet	Link/Activity - Green
Port Configuration	Auto MDI/MDI-X	Optical	On/Blink - Green
Port Speed	Auto-negotiate		
		Electrical and Mechanical	
Ethernet		Power Supply	12V 2A
Switch Architecture	Store-and-forward	Power Consumption	<12W
MAC Address	8K entries	Dimensions	118 x 110 x 28mm
Maximum Frame Size	9.6K Bytes (Jumbo Frames)		
Flow Control	Back pressure(Half-Duplex);	Environmental	
	IEEE 802.3x Pause Frame	MTBF	>100,000 hours
	(Full-Duplex)	Operating Temperature	0°C~+55°C
Optical		Storage Temperature -	-40°C~+70°C
Wavelength	1310/1550nm	Relative Humidity	0%~95%
	1550/1310nm		(non-condensing)
Multimode	2KM	Standards Compliance	
Singlemode	20/40/60/80KM	Regulatory Standards	CE; FCC Part 15 Class A
Optical Emitter	Laser Diode		IEEE 802.3i 10Base-T
Number of Fibers	1/2		IEEE 802.3u 100Base-TX
Connector	LC (SFP)		IEEE 802.3ab 1000Base-TX

## Ordering Information

Part Number	Description	Connector	Cable	Fiber	Maximum Distance
RCGE2F2-SFP	10/100/1000 Mbps 1310/1550nm		/	,	,
	1550/1310nm				
	(without SFP module)				

<sup>\*</sup>Optical transmission distance is limited to optical loss of the fiber and any additional lossintroduced by connectors, splices and patch panels.