

RCGE1S-POE Series 10/100/1000Base-T to Gigabit SFP 802.3at PoE+ Media Converter

The Rancent RCGE1S-POE media converter is designed to transmit and receive 10/100/1000 Mbps data through user selectable SFP options. It supports IEEE 802.3at as power sourcing equipment (PSE) with up to 30 Watts of operating power to the remote powered device. Its electrical interface will Auto-Negotiate to a 10Mbps,100Mbps or 1000Mbps Ethernet rate without any adjustments. The optical interface operates at 1000Mbps. It requires the ordering of sold separately SFP modules for fiber type, distance and connectors. LED indicators are provided for confirming equipment operating status.



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

- 1-Port 10/100/1000Base-T Fast Ethernet RJ-45 Port
- 1-Port 1000Base-SX/LX/EX/BX SFP Optical Port
- 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)
- 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

Copper Ports (RJ45) Optical Ports Port Configuration Port Speed

Ethernet

Switch Architecture Forward Filter Rate MAC Address Packet Buffer Size Flow Control

Optical

Wavelength

Multimode Singlemode Optical Emitter Number of Fibers Connector

LED Indicators

Power Ethernet Optical 1 x 10/100/1000Base-T 1 x 1000Base-SX/LX/EX/BX SFP Auto MDI/MDI-X Auto-negotiate

Store-and-forward 148,8000pps (1000Mbps) 4K entries 1.75M Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex)

1310/1550nm 1550/1310nm 2KM 20KM Laser Diode 1/2 LC (SFP)

On/Green Link/Activity - Green On/Blink - Green

POE

Standard

Port Power PIN Assignment Power Output

Electrical and Mechanical Power Supply Power Consumption Dimensions

Environmental MTBF

Operating Temperature Storage Temperature -Relative Humidity

Standards Compliance Regulatory Standards IEEE802.3af IEEE 802.3at RJ45 1/2(+), 3/6(-) default 48VDC, 15.4Watts 52VDC, 30Watts

48~52VDC 1A <2.5W 93 x 70 x 25mm

>100,000 hours 0°C~+55°C -40°C~+70°C 0%~95% (non-condensing)

CE; FCC Part 15 Class A IEEE 802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3af POE IEEE802.3at POE

Ordering Information

Part Number	Description	Connector	Cable	Fiber	Maximum Distance
RCGE1S-PLM1A	10/100/1000 Mbps 1310/1550nm	LC (SFP)	MM	1	2KM
RCGE1S-PLM1B	10/100/1000 Mbps 1550/1310nm	LC (SFP)	MM	1	2KM
RCGE1S-PLS1A	10/100/1000 Mbps 1310/1550nm	LC (SFP)	SM	1	20KM
RCGE1S-PLS1B	10/100/1000 Mbps 1550/1310nm	LC (SFP)	SM	1	20KM
RCGE1S-POE	10/100/1000 Mbps 1310/1550nm	LC (SFP)	/	/	/

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