

RCFE2-POE Series 10/100Base-Tx to 100Base-Fx 802.3at PoE+ Media Converter

The Rancent RCFE2-POE series are two-channel Ethernet electrical to optical media converters with optional PoE+. These auto-negotiating devices accept two 10/100 Mbps electrical inputs and convert this to a single 100 Mbps optical output. This series of media converters are available as multimode or single-mode and one and two fiber SC and ST optical connectors. They provide full compliance with IEEE 802.3at as Power Sourcing Equipment (PSE), with a maximum power of up to 30 Watts @ 48 VDC, making them ideal for those applications where the remote equipment draws significant power.



- 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

- 2-Port 10/100Base-T Fast Ethernet RJ-45 Port
- 1-Port 100Base-FX Optical Port
- PoE Compatible: IEEE 802.3af and 802.3at compliant for PoE and PoE Plus
- 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 ST or SC fiber connector
- 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 2 x 10/100Base-T 1 x 100Base-FX Auto MDI/MDI-X Auto-negotiate

Store-and-forward 148,800pps (100Mbps) 2K entries 1M Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex)

1310/1550nm or 1550/1310nm 2KM 20KM Laser Diode 1/2 ST or SC

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 802.3i 10Base-T IEEE 802.3u 100Base-TX IEEE802.3af POE IEEE802.3at POE

Ordering Information

Part Number	Description	Connector	Cable	Fiber	Maximum Distance
RCFE2-PTM1A	10/100 Mbps 1310/1550nm	ST	MM	1	2KM
RCFE2-PTM1B	10/100 Mbps 1550/1310nm	ST	MM	1	2KM
RCFE2-PTS1A	10/100 Mbps 1310/1550nm	ST	SM	1	20KM
RCFE2-PTS1B	10/100 Mbps 1550/1310nm	ST	SM	1	20KM
RCFE2-PCM1A	10/100 Mbps 1310/1550nm	SC	MM	1	2KM
RCFE2-PCM1B	10/100 Mbps 1550/1310nm	SC	MM	1	2KM
RCFE2-PCS1A	10/100 Mbps 1310/1550nm	SC	SM	1	20KM
RCFE2-PCS1B	10/100 Mbps 1550/1310nm	SC	SM	1	20KM
RCFE2-PTM2	10/100 Mbps 1310nm	ST	MM	2	2KM
RCFE2-PTS2	10/100 Mbps 1310nm	ST	SM	2	20KM
RCFE2-PCM2	10/100 Mbps 1310nm	SC	MM	2	2KM
RCFE2-PCS2	10/100 Mbps 1310nm	SC	SM	2	20KM

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