

# RCFE2 Series 10/100Base-Tx to 100Base-Fx Media Converter

The Rancent RC-FE2 media converter series are two-channel Ethernet electrical to optical media converters. These devices accept two 10/100 Mbps electrical inputs and convert this to a single 100 Mbps optical output. This series of media converters use multimode and singlemode optical fiber and one and two fiber SC and ST optical connectors. LED indicators on the devices confirm operational status. All these models are environmentally hardened with no electrical or optical adjustments (Plug and Play). The units are powered by an included DC power supply.



## **Typical Applications**

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

### **Product Features**

- 2-Port 10/100Base-T Fast Ethernet RJ-45 Port
- 1-Port 100Base-FX Optical Port
- Complies with the IEEE 802.3 standard
- 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

Optical

Wavelength

Multimode

Singlemode

Connector

**Optical Emitter** 

Number of Fibers

Switch Architecture MAC Address Flow Control

## 2 x 10/100Base-T 1 x 100Base-FX Auto MDI/MDI-X Auto-negotiate

Store-and-forward 2K entries Back pressure(Half-Duplex); IEEE 802.3x Pause Frame (Full-Duplex)

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

#### LED Indicators & Switch

Power Ethernet Optical On/Green Link/Activity - Green On/Blink - Green

#### **Electrical and Mechanical**

Power Supply	5V 1A
Power Consumption	<2.5W
Dimensions	93 x 70 x 25mm

#### Environmental

MTBF
Operating Temperature
Storage Temperature -
Relative Humidity

#### Standards Compliance

Regulatory Standards

>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

## **Ordering Information**

Part Number	Description	Connector	Cable	Fiber	Maximum Distance
RCFE2-TM1A	10/100 Mbps 1310/1550nm	ST	MM	1	2KM
RCFE2-TM1B	10/100 Mbps 1550/1310nm	ST	MM	1	2KM
RCFE2-TS1A	10/100 Mbps 1310/1550nm	ST	SM	1	20KM
RCFE2-TS1B	10/100 Mbps 1550/1310nm	ST	SM	1	20KM
RCFE2-CM1A	10/100 Mbps 1310/1550nm	SC	MM	1	2KM
RCFE2-CM1B	10/100 Mbps 1550/1310nm	SC	MM	1	2KM
RCFE2-CS1A	10/100 Mbps 1310/1550nm	SC	SM	1	20KM
RCFE2-CS1B	10/100 Mbps 1550/1310nm	SC	SM	1	20KM
RCFE2-TM2	10/100 Mbps 1310nm	ST	MM	2	2KM
RCFE2-TS2	10/100 Mbps 1310nm	ST	SM	2	20KM
RCFE2-CM2	10/100 Mbps 1310nm	SC	MM	2	2KM
RCFE2-CS2	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.