

# Optolinx FCU-1802P

100BaseFX to 10/100BaseTX PoE (Power over Ethernet) Media Converter



## Features

### FCU-3002A-SC-S2

- IEEE 802.3, 802.3u, 802.3af (PoE) Standards
- Support for 10/100Base-TX Half or Full-Duplex Mode
- MDI-X Function on Copper Port
- Full Duplex Flow control & Back Pressure in Half Duplex
- 48V Power over RJ-45 Ethernet Cable
- Support IEEE 802.3af Equipments

► Compact Size, Easy Installation

## Specifications

### Standard

- IEEE 802.3 Ethernet
- IEEE 802.3u Fast Ethernet
- IEEE 802.3x Flow Control
- IEEE 802.3af Power over Ethernet

### Interface

- 1 x 10/100BaseTX RJ-45 Port, Auto-Negotiation, Auto-MDI/MDI-X with PoE Injector Function
- 1 x 100BaseFX Port

### Fiber Connector

- FCU-1802P-SC: SC / Multi-Mode
- FCU-1802P-SC-S15: SC / Single-Mode

### Typical Distance

- FCU-1802P-SC: 2km
- FCU-1802P-SC-S15: 15km

### Wavelength

- 1310nm

### Minimum TX Power

- FCU-1802P-SC: -19 dBm
- FCU-1802P-SC-S15: -20 dBm

### Maximum TX Power

- FCU-1802P-SC: -14 dBm
- FCU-1802P-SC-S15: -7 dBm

### Receive Sensitivity

- FCU-1802P-SC: -34.5 dBm
- FCU-1802P-SC-S15: -28 dBm

### Maximum Input Power

- FCU-1802P-SC: -14 dBm
- FCU-1802P-SC-S15: -8 dBm

### Switch Architecture

- Store-and-Forward

### Flow Control

- Back Pressure for Half-Duplex
- IEEE 802.3x Pause Frame for Full-Duplex Mode

### LED

- Power/Status, TP Link/ACT, Fiber Link/ACT, PoE

### LFP Mode

- Enable: If either TP or FX port is broken, shut down the other port
- Disable: Link LED indicators still on if connection is broken

### Power Output

- PoE 48V DC, Max. 15.4W, 350mA

### Power Pin Assignment

- 1/2(+), 3/6(-)

### Power

- 48V DC, 0.4A External AC-DC Adapter

### Operation Temperature

- 0° C to 50° C (32° F to 122° F)

### Storage Temperature

- 10° C to 70° C (14° F to 158° F)

### Operation Humidity

- 5% to 90% (Non-condensing)

### Case Dimension (W x D x H)

- 97 x 70 x 26mm

### Weight

- 200g

### Emission/Safety

- FCC Part 15 Class A, CE

### Warranty

- 2-Year Warranty

## Ordering Information

FCU-1802P-SC  
FCU-1802P-SC-S15

100BaseFX to 10/100BaseTX PoE Media Converter, Multi-Mode, SC, 2km  
100BaseFX to 10/100BaseTX PoE Media Converter, Single-Mode, SC, 15km