

# Optolinx FCU-1802P

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



## Features

- ▶ Complies with IEEE 802.3, 802.3u, 802.3af (PoE) Standards
- ▶ Auto-Negotiation for 10/100Base-TX Half or Full-Duplex Mode
- ▶ Auto-MDI/MDI-X Function on Copper Port
- ▶ IEEE 802.3x Full Duplex Flow control & Back Pressure in Half Duplex
- ▶ Provides DC 48V Power over RJ-45 Ethernet Cable
- ▶ Auto-Detect PoE 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

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

FCU-1802P-SC-S15

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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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