

# Optolinx FCU-3002A

10/100/1000BaseT to 1000BaseX Media Converter

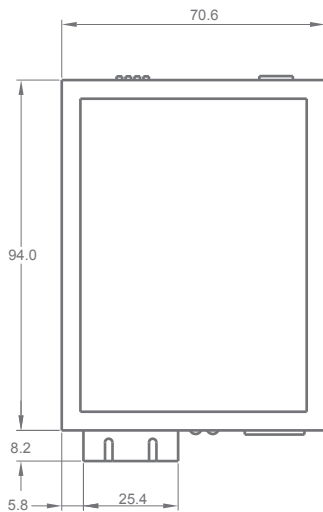


## Features

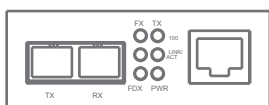
- ▶ Complies with IEEE 802.3u/ab 10/100/1000BaseT
- ▶ Complies with IEEE 802.3z 1000BaseX
- ▶ Supports Jumbo Frame (9K bytes)
- ▶ Store-and-Forward Switching Mechanism
- ▶ Auto-Crossover for MDI/MDIX in TP Port
- ▶ Auto-Negotiation in TP Port
- ▶ Supports Flow Control
- ▶ Supports Link Alarm
- ▶ Supports Auto & Force Mode Configuration
- ▶ 5-Year Warranty



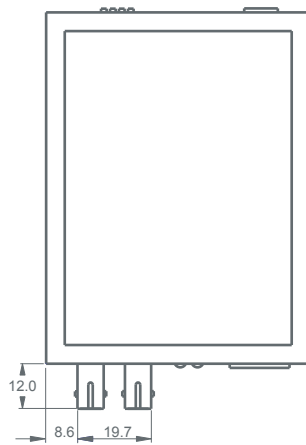
## Specifications



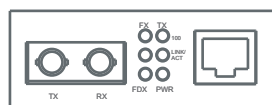
Top View (SC)



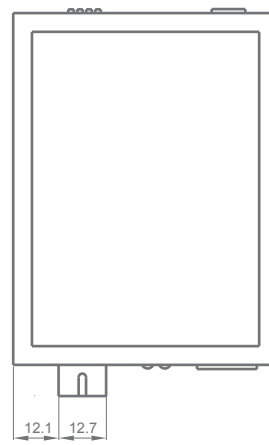
Panel View (SC)



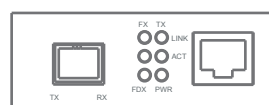
Top View (ST)



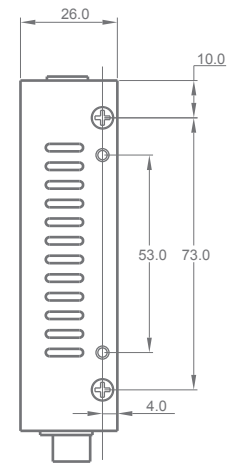
Panel View (ST)



Top View (WDM)



Panel View (WDM)



Side View



Rear View

## ► Specifications

### Standard

IEEE 802.3z 1000BaseX  
IEEE 802.3 10BaseT  
IEEE 802.3u 100BaseTX  
IEEE 802.3ab 1000BaseT  
IEEE 802.3x Flow Control

### Interface

10/100/1000BaseT: 1 x RJ45 Port  
1000BaseX: 1 x Port

### Wavelength

FCU-3002A-SC: 850nm  
FCU-3002A-SC-S1/S2: 1310nm  
FCU-3002A-WA: TX-1310nm; RX-1550nm  
FCU-3002A-WB: TX-1550nm; RX-1310nm

### Typical Distance

FCU-3002A-SC: 550 m  
FCU-3002A-SC-S1: 10 Km  
FCU-3002A-SC-S2: 20 Km  
FCU-3002A-WA/WB-S1: 10 Km  
FCU-3002A-WA/WB-S2: 20 Km

### Minimum TX Power

FCU-3002A-SC: -9.5 dBm  
FCU-3002A-SC-S1: -9.0 dBm  
FCU-3002A-SC-S2: -6.0 dBm  
FCU-3002A-WA/WB: -9.0 dBm

### Maximum TX Power

FCU-3002A-SC: -4.0 dBm  
FCU-3002A-SC-S1: -3.0 dBm  
FCU-3002A-SC-S2: -1.0 dBm  
FCU-3002A-WA/WB: -2.0 dBm

### Sensitivity

FCU-3002A-SC: -18.0 dBm  
FCU-3002A-SC-S1: -21.0 dBm  
FCU-3002A-SC-S2: -21.0 dBm  
FCU-3002A-WA/WB: -21.0 dBm

### Link Budget

FCU-3002A-SC: 8.5 dB  
FCU-3002A-SC-S1: 12.0 dB  
FCU-3002A-SC-S2: 15.0 dB  
FCU-3002A-WA/WB: 12.0 dB

### LED

Power, FDX, Status, Speed, FO Link/ACT, TX Link/ACT

### MAC Address Table

1 K

### Memory Buffer

128 KB

### Forward/Filter Rate

10M: 14,880/14,880pps  
100M: 148,800/148,800pps  
1000M: 1,488,000/1,488,000pps

### Power

External Power Supply: DC 5V, 1.5A  
50, 60 Hz

### Power Consumption

3 Watts

### Operation Temperature

0° C to 50° C (32° F to 122° F)

### Storage Temperature

-20° C to 60° C (-4° F to 140° F)

### Operation Humidity

5% to 90% (Non-condensing)

### Mechanical

Casing: IP30 Metal Case  
Dimension (W x H x D): 71 x 94 x 26 mm (2.80 x 3.70 x 1.02 inches)  
Weight: 0.6 Kg (1.3 lbs)  
Installation: DIN-Rail/Wall Mountable

### Emission/Safety

FCC Class A, CE

### Warranty

5-Year Warranty

## ► Ordering Information

FCU-3002A-SC	10/100/1000T - 1000X Media Converter, Standalone Module, Multi-Mode, SC, 550m
FCU-3002A-SC-S1	10/100/1000T - 1000X Media Converter, Standalone Module, Single-Mode, SC, 10Km
FCU-3002A-SC-S2	10/100/1000T - 1000X Media Converter, Standalone Module, Single-Mode, SC, 20Km
FCU-3002A-WA-S1	10/100/1000T - 1000X Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 10Km, TX-1310nm; RX-1550nm
FCU-3002A-WB-S1	10/100/1000T - 1000X Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 10Km, TX-1550nm; RX-1310nm
FCU-3002A-WA-S2	10/100/1000T - 1000X Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 20Km, TX-1310nm; RX-1550nm
FCU-3002A-WB-S2	10/100/1000T - 1000X Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 20Km, TX-1550nm; RX-1310nm

### Optional Accessories

AD-SCM-STF-M	SC (Male) to ST (Female) Duplex Adapter (Multi-Mode)
AD-SCM-STF-S	SC (Male) to ST (Female) Duplex Adapter (Single-Mode)
FCU-BK	Mounting Brackets for FCU Modules
DIN-RAIL-KIT	DIN-Rail Mounting Kit

### Antaira Technologies

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