

Optolinx FCU-3002

1000BaseTX to 1000BaseFX Media Converter

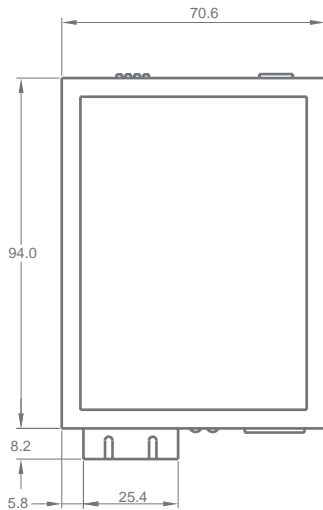


Features

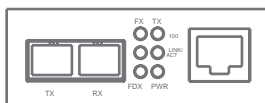
- ▶ Complies with IEEE 802.3z 1000BaseSX/LX and 802.3ab 1000BaseT
- ▶ Supports Jumbo Frame (64-9216 Bytes)
- ▶ Store-and-Forward Switching Mechanism
- ▶ Auto-Crossover for MDI/MDIX in TP Port
- ▶ Supports Link-Fault-Pass-Through
- ▶ LED: Power, FDX, TP Act, TP Link, Fiber Act, Fiber Link
- ▶ Configuration DIP Switch Supports Auto, Speed, Duplex, Auto MDI/MDIX, & Link-Fault-Pass-Through
- ▶ 5-Year Warranty



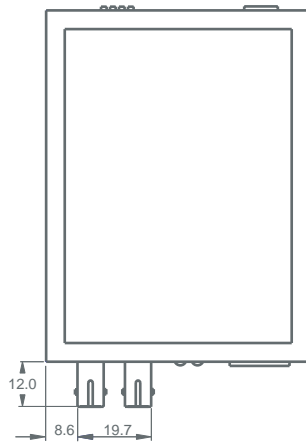
▶ Dimensions (unit = mm)



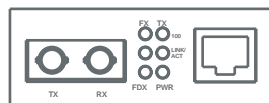
Top View (SC)



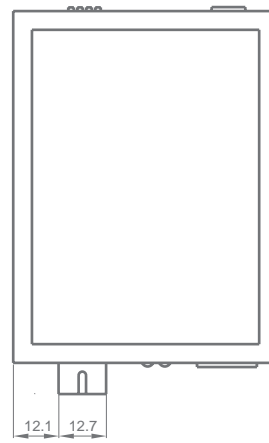
Panel View (SC)



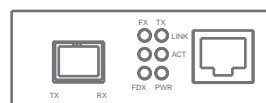
Top View (ST)



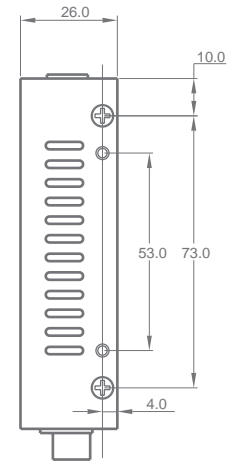
Panel View (ST)



Top View (WDM)



Panel View (WDM)



Side View



Rear View

► Specifications

Standard

IEEE 802.3z 1000BaseSX/LX
IEEE 802.3ab 1000BaseT

Interface

1000BaseT: 1 x RJ45 Port
1000BaseLX: 1 x SC Port

Wavelength

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

Typical Distance

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

Minimum TX Power

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

Maximum TX Power

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

Sensitivity

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

Link Budget

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

LED

Power, FDX, TP Link/ACT, Fiber Link/ACT

Power

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

Power Consumption

6 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-3002SC

1000TX - 1000FX Media Converter, Standalone Module, Multi-Mode, SC, 550m

FCU-3002SC-S1

1000TX - 1000FX Media Converter, Standalone Module, Single-Mode, SC, 10Km

FCU-3002SC-S2

1000TX - 1000FX Media Converter, Standalone Module, Single-Mode, SC, 20Km

FCU-3002WA-S2

1000TX - 1000FX Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 20Km, TX-1310nm; RX-1550nm

FCU-3002WB-S2

1000TX - 1000FX Single-Strand Fiber (WDM), Standalone Module, Single-Mode, SC, 20Km, TX-1550nm; RX-1310nm

Optional Accessories

CBF-SC01ST-MD

SC to ST Multi-Mode Duplex Fiber Cable (1 Meter)

CBF-SC01SC-MD

SC to SC Multi-Mode Duplex Fiber Cable (1 Meter)

CBF-SC01SC-SS

SC to SC Single-Mode Simplex Fiber Cable (1 Meter)

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

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