

# Optolinx FCN-3112

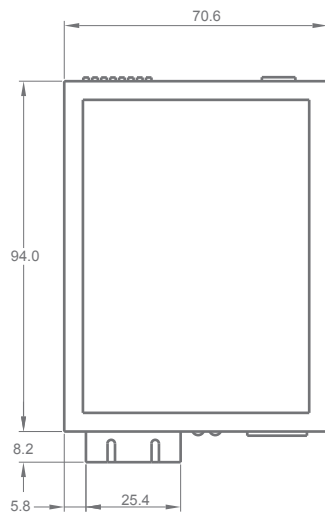
10/100/1000BaseT to 1000BaseX SNMP Managed Media Converter

## Features

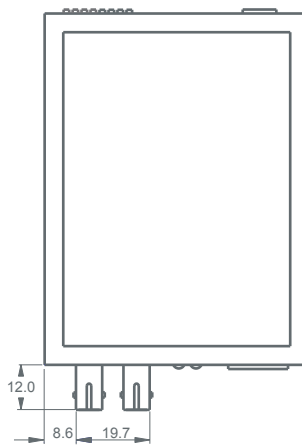


- ▶ Complies with IEEE 802.3/802.3u/802.3ab/802.3z
- ▶ Store and Forward Switching Mechanism
- ▶ Auto-Negotiation in TP port
- ▶ Auto-Cross over for MDI/MDIX in TP port
- ▶ Supports Flow Control
- ▶ Supports Jumbo frame 9K bytes
- ▶ Supports Link Alarm
- ▶ Supports Loopback test
- ▶ Supports Selectable ISP Ethernet Tag Type
- ▶ Supports Q-in-Q Double Tag configuration
- ▶ Supports Bandwidth Control
- ▶ Supports DHCP Client
- ▶ Supports SNMP/ Web Managed interface
- ▶ Supports SNMP v1 and v2c
- ▶ Supports HTTP Firmware Upgrade
- ▶ Supports Power Down Trap Management
- ▶ 5-Year Warranty

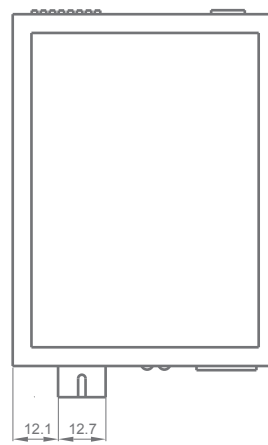
## Specifications



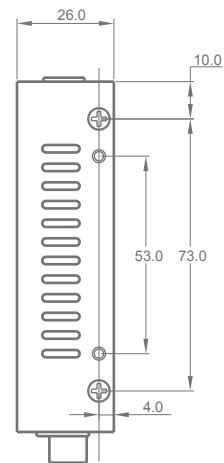
Top View (SC)



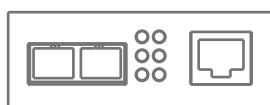
Top View (ST)



Top View (WDM)



Side View



Panel View (SC)



Panel View (ST)



Panel View (WDM)



Rear View

## ► Specifications

### Standard

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

### Interface

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

### Wavelength

FCN-3112SC: 850nm  
FCN-3112SC-S1/S2: 1310nm  
FCN-3112WA: TX-1310nm; RX-1550nm  
FCN-3112WB: TX-1550nm; RX-1310nm

### Typical Distance

FCN-3112SC: 550 m  
FCN-3112SC-S1: 10 Km  
FCN-3112SC-S2: 20 Km  
FCN-3112WA/WB: 20 Km

### Minimum TX Power

FCN-3112SC: -9.5 dBm  
FCN-3112SC-S1: -9.0 dBm  
FCN-3112SC-S2: -6.0 dBm  
FCN-3112WA/WB: -9.0 dBm

### Maximum TX Power

FCN-3112SC: -4.0 dBm  
FCN-3112SC-S1: -3.0 dBm  
FCN-3112SC-S2: -1.0 dBm  
FCN-3112WA/WB: -2.0 dBm

### Sensitivity

FCN-3112SC: -18.0 dBm  
FCN-3112SC-S1: -21.0 dBm  
FCN-3112SC-S2: -21.0 dBm  
FCN-3112WA/WB: -21.0 dBm

### Link Budget

FCN-3112SC: 8.5 dB  
FCN-3112SC-S1: 12.0 dB  
FCN-3112SC-S2: 15.0 dB  
FCN-3112WA/WB: 12.0 dB

### LED

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

### MAC Address Table

1K

### Memory Buffer

256Kb

### 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

3.4 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

### FCN-3112SC

10/100/1000TX - 1000SX SNMP Managed Media Converter, Multi-Mode, SC, 550m

### FCN-3112SC-S1

10/100/1000TX - 1000SX SNMP Managed Media Converter, Single-Mode, SC, 10Km

### FCN-3112SC-S2

10/100/1000TX - 1000SX SNMP Managed Media Converter, Single-Mode, SC, 20Km

### FCN-3112WA-S1

10/100/1000TX - 1000FX Single-Strand Fiber (WDM) SNMP Managed Media Converter, Single-Mode, SC, 10Km, TX-1310nm; RX-1550nm

### FCN-3112WB-S1

10/100/1000TX - 1000FX Single-Strand Fiber (WDM) SNMP Managed Media Converter, Single-Mode, SC, 10Km, 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/FCN Modules

#### DIN-RAIL-KIT

DIN-Rail Mounting Kit

### Antaira Technologies

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