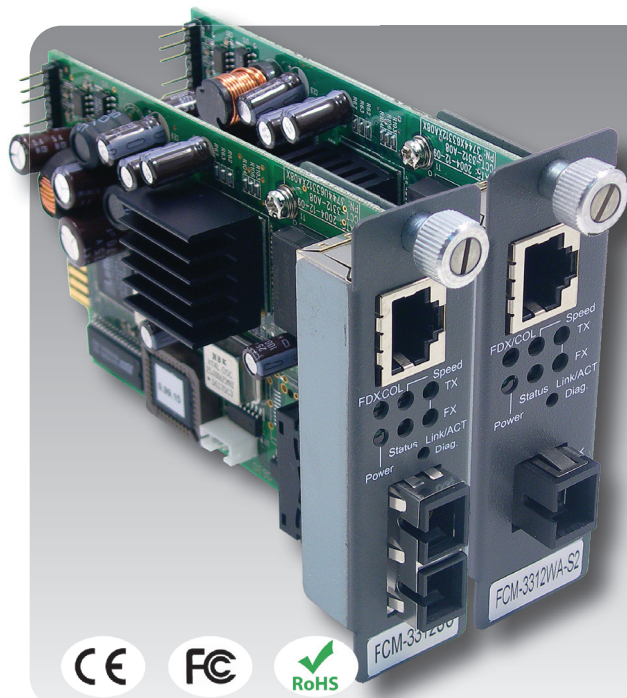


Optolinx FCM-3312

10/100/1000BaseTX to 1000BaseFX Managed Media Converter Module

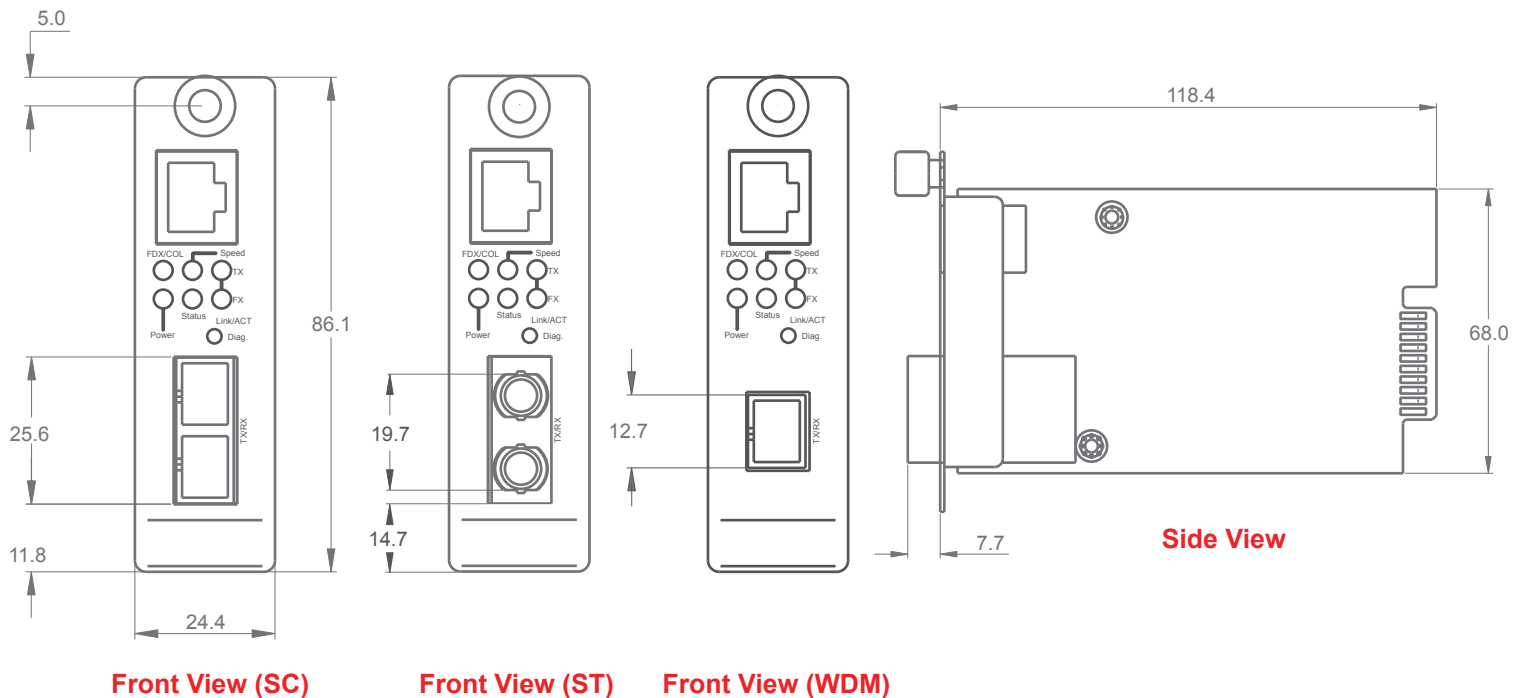


Features

- ▶ Complies with IEEE 802.3 10BaseT, 802.3u 100BaseTX/100BaseFX, 802.3z 1000BaseFX, & 802.3ab 1000BaseTX
- ▶ Store and Forward Switching Mechanism
- ▶ Auto-Crossover for MDI/MDIX in TP Port
- ▶ Auto-Negotiated Data Rate & Flow Control on TP Port
- ▶ Supports 4K MAC Address
- ▶ Supports 256K Byte Packet Buffer
- ▶ Supports Link-Fault-Pass-Through
- ▶ Supports Loop Back and Diagnostic Test Button
- ▶ Supports Redundancy with FCM-CHS2 Chassis
- ▶ Compatible with FCM-CHS2 Management Functions
- ▶ Configuration DIP Switch Supports Auto, Speed, Duplex, Auto MDI/MDIX, & Link-Fault-Path-Through
- ▶ IN-BAND Diagnostic (Loop-Back Test)
- ▶ Supports Broadcast Storm Blocking
- ▶ Hot-Swappable When Used with FCM-CHS2 Chassis
- ▶ 5-Year Warranty



Specifications



► Specifications

Local Port Management

State Monitor: Model/Media/Link/Speed/Duplex/Activity
Enhanced Port Monitor: Traffic Counter
Port Configuration: Auto/Speed/Duplex/Flow Control

Remote Port Management

State Monitor: Model/Media/Link/Speed/Duplex/Activity/Power
Port Configuration: Auto/Speed/Duplex/Flow Control

Standard

IEEE 802.3 10BaseT
IEEE 802.3u 100BaseTX/FX
IEEE 802.3z 1000BaseFX
IEEE 802.3ab 1000BaseTX

Interface

10/100/1000Mbps: 1 x RJ45 port
1000Mbps FX: 1 x SC port

Optical Fiber

Multi-Mode: 50/125 μ m ~ 62.5/125 μ m
Single-Mode: 9/125 μ m ~ 10/125 μ m

Wavelength

FCM-3312SC: 850nm
FCM-3312SC-S1/S3: 1310nm
FCM-3312WA: TX-1310nm; RX-1550nm
FCM-3312WB: TX-1550nm; RX-1310nm

Typical Distance

FCM-3312SC: 550 m
FCM-3312SC-S1: 10 Km
FCM-3312SC-S3: 30 Km
FCM-3312WA/WB: 20 Km

Minimum TX Power

FCM-3312SC: -9.5 dBm
FCM-3312SC-S1: -9.0 dBm
FCM-3312SC-S3: -5.0 dBm
FCM-3312WA/WB: -9.0 dBm

Maximum TX Power

FCM-3312SC: -4.0 dBm
FCM-3312SC-S1: -3.0 dBm
FCM-3312SC-S3: 0.0 dBm
FCM-3312WA/WB: -2.0 dBm

Sensitivity

FCM-3312SC: -18.0 dBm
FCM-3312SC-S1: -21.0 dBm
FCM-3312SC-S3: -24.0 dBm
FCM-3312WA/WB: -21.0 dB

Link Budget

FCM-3312SC: 8.5 dB
FCM-3312SC-S1: 12.0 dB
FCM-3312SC-S3: 19.0 dB
FCM-3312WA/WB: 12.0 dB

MAC Table

4K

Memory Buffer

256K

Forward/ Filter Rate

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

Redundancy

Supports Redundancy with FCM-CHS2 Chassis

LED

Power, FDX/COL, Speed, TP Link/ACT, FO Link/ACT, Status

DIP-Switch

Auto/Speed/Duplex/Auto MDIX/MDIX/Link-Fault-Path-Through

Power

External Power Supply: Output DC 12V

Power Consumption

3.7 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

Dimension (W x H x D): 119 x 86 x 25 mm (4.69 x 3.39 x 0.98 in.)
Weight: 0.3 Kg (0.66 lbs)
Installation: DIN-Rail/Wall Mountable

Emission/Safety

FCC Class A, CE

Warranty

5-Year Warranty

► Ordering Information

FCM-3312SC

FCM-3312SC-S1

FCM-3312SC-S3

FCM-3312WA-S2

FCM-3312WB-S2

FCM-CHS2-AC

10/100/1000TX - 1000FX Managed Media Converter Module, Multi-Mode, SC, 550 m

10/100/1000TX - 1000FX Managed Media Converter Module, Single-Mode, SC, 10 Km

10/100/1000TX - 1000FX Managed Media Converter Module, Single-Mode, SC, 30 Km

10/100/1000TX - 1000FX Single-Strand Fiber (WDM) Module, Managed, Single-Mode, SC, 20 Km, TX-1310nm; RX-1550nm

10/100/1000TX - 1000FX Single-Strand Fiber (WDM) Module, Managed, Single-Mode, SC, 20 Km, TX-1550nm; RX-1310nm

16 Slot IN-BAND Managed Media Converter Chassis (with 1 AC Power)

Optional Accessories

CBF-SC01ST-MD

CBF-SC01SC-MD

CBF-SC01SC-SS

AD-SCM-STF-M

AD-SCM-STF-S

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

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

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

SC (Male) to ST (Female) Duplex Adapter (Multi-Mode)

SC (Male) to ST (Female) Duplex Adapter (Single-Mode)

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