

SFP-1FE Series

1-port Fast Ethernet SFP module



Features and Benefits

- Digital Diagnostic Monitor Function
- IEEE 802.3u compliant
- Differential PECL inputs and outputs
- TTL signal detect indicator
- Hot pluggable LC duplex connector
- Class 1 laser product; complies with EN 60825-1

Certifications



Introduction

The SFP-1FE Series 1-port Fast Ethernet SFP modules are available as optional accessories for a wide range of Moxa Ethernet switches.

Specifications

Ethernet Interface

| | | | | | | |
|---------------|--|-------------------------|---------------------|------------------------------|--------------|--------------|
| Ports | 1 | | | | | |
| Connectors | Duplex LC connector | | | | | |
| Optical Fiber | Fast Ethernet SFP | | | | | |
| | | | SFP-M | | SFP-S | SFP-L |
| | Transceiver Type | | Multi-Mode | | Single-mode | |
| | Fiber Cable Type | | OM1/OM2/ OM3/OM4 | 62.5/125, 50/ 125 μ m | G.652 | G.652 |
| | | | | 800 MHz x km | | |
| | Typical Distance | | 2 km | 4 km | 40 km | 80 km |
| | Wavelength | Typical (nm) | 1310 | | 1310 | 1550 |
| | | TX Range (nm) | 1280 to 1340 | | 1280 to 1340 | 1530 to 1570 |
| | | RX Range (nm) | 1100 to 1650 | | 1100 to 1600 | 1100 to 1600 |
| | Optical Power | TX Range (dBm) | -8 to -18 | | 0 to -5 | 0 to -5 |
| | | RX Range (dBm) | -3 to -32 | | -3 to -34 | -3 to -34 |
| | | Link Budget (dB) | 14 | | 29 | 29 |
| | | Dispersion Penalty (dB) | 2 | 3 | 1 | 1 |
| | <p>Note: When connecting the SFP-S or L, we recommend using an attenuator to prevent damage caused by excessive optical power.</p> | | | | | |

Power Parameters

| | |
|-------------------|----------|
| Power Consumption | Max. 1 W |
|-------------------|----------|

Environmental Limits

| | |
|--|----------------------------|
| Operating Temperature | -40 to 85°C (-40 to 185°F) |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F) |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |

Standards and Certifications

| | |
|----------|--------------------------------|
| Safety | CE FCC TÜV UL 60950-1 |
| Maritime | DNV-GL |

Warranty

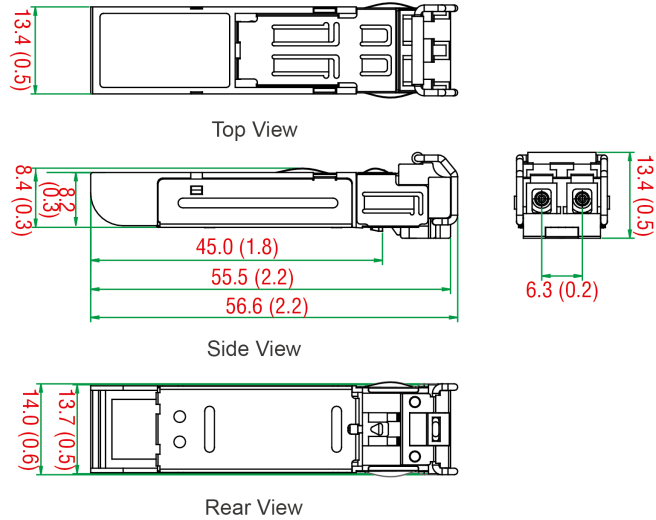
| | |
|-----------------|--|
| Warranty Period | 5 years |
| Details | See www.moxa.com/warranty |

Package Contents

| | |
|---------------|---------------------------|
| Device | 1 x SFP-1FE Series module |
| Documentation | 1 x warranty card |

Dimensions

Unit: mm (inch)



Ordering Information

| Model Name | 100BaseFX Ports | Connector | Transmission Distance | Operating Temp. |
|--------------|-----------------|-----------|-----------------------|-----------------|
| SFP-1FEMLC-T | 1 x Multi-mode | LC | 2 km/4 km | -40 to 85°C |
| SFP-1FESLC-T | 1 x Single-mode | LC | 40 km | -40 to 85°C |
| SFP-1FELLC-T | 1 x Single-mode | LC | 80 km | -40 to 85°C |

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