

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 μm	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
	Note: When connecting the SFP-S or L, we recommend using an attenuator to prevent damage caused by excessive optical power.					

Power Parameters

Power Consumption	Max. 1 W
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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	UL 62368-1 IEC 62368-1 IEC 60825-1
EMC	EN 55032/35
EMI	FCC Part 15B Class Test Report ICES-003: 2020 Issue 7

EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 kV(AC), 0.5 kV(DC); Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 1 kV / 2 kV(AC), 0.5 kV(DC); Signal: 1 kV IEC 61000-4-6 CS: 0.15 MHz to 10 MHz: 3 V, 10 MHz to 30 MHz: 3 to 1 V, 30 MHz to 80 MHz: 1V IEC 61000-4-8 PFMF: 1 A/m at 50 Hz IEC61000-4-11 Voltage Dips and Interruption
Maritime	DNV

Warranty

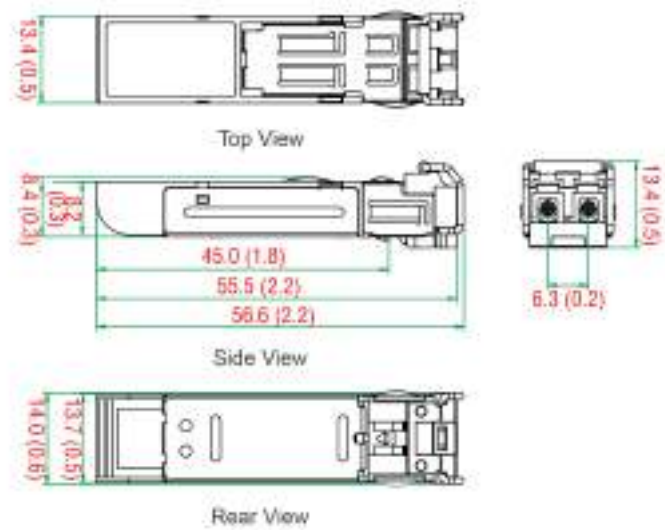
Warranty Period	5 years
Details	See www.moxa.com/warranty

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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