SFP-1FE Series

1-port Fast Ethernet SFP modules

> 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

: Specifications

Interface
Ethernet 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 / 62.5/125, 50/125 μm / 800 MHz*km	G.652	G.652
Typical Distance	2 km / 4 km	40 km	80 km
Wave-length — Typical (nm)	1310	1310	1550
Wave-length — TX Range (nm)	1280 to 1340	1280 to 1340	1530 to 1570
Wave-length — 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
Optical Power — RX Range (dBm)	-3 to -32	-3 to -34	-3 to -34
Optical Power — Link Budget (dB)	14	29	29
Optical Power — 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 Requirements
Power Consumption: Max. 1 W

Environmental Limits

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

Standards and Certifications
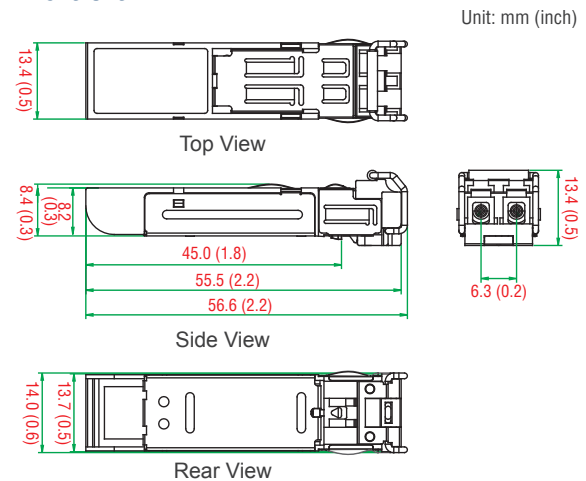**Safety:** CE, FCC, TÜV, UL 60950-1
Marine: DNV, GL

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

Dimensions

Unit: mm (inch)

Top View
Side View
Rear View

: Ordering Information

Available Models	Port Interface		
Wide Temperature (-40 to 85˚C)	100BaseFX, Multi-Mode, LC Connector, 4 km	100BaseFX, Single-Mode, LC Connector, 40 km	100BaseFX, Single-Mode, LC Connector, 80 km
SFP-1FEMLC-T	1	–	–
SFP-1FESLC-T	–	1	–
SFP-1FELLC-T	–	–	1

Note: Please refer to the Moxa Ethernet SFP Transceiver Product Compatibility Matrix for products that can be used with these modules.

Package Checklist
- SFP-1FE module
- Warranty card

Moxa Ethernet SFP Transceiver Product Compatibility Matrix

Refer to the product compatibility matrix below to determine which SFP modules are compatible with which product models. For more specification information about an SFP module, please refer to the module's datasheet.

Model	SFP-1FE Series	SFP-1G Series	SFP-1G Copper Series	SFP-10G Series
Industrial 10Gb Core Switches				
ICS-G7850A/G7852A Series	–	✓	✓	✓
ICS-G7750A/G7752A Series	–	✓	✓	✓
ICS-G7826A/G7828A Series	✓	✓	✓	✓
ICS-G7526A/G7528A Series	✓	✓	✓	✓
IM-G7000A-4GSFP	✓	✓	✓	–
Rackmount Ethernet Switches				
IKS-G6524A/G6824A Series	✓	✓	✓	–
IKS-6726A/6728A Series	✓	✓	–	–
IKS-6728A-8PoE Series	✓	✓	–	–
IM-6700A-8SFP	✓	–	–	–
DIN-Rail Etherne Switches				
EDS-611/619 Series	✓	✓	–	–
EDS-G516E Series	✓	✓	✓	–
EDS-G512E Series	✓	✓	✓	–
EDS-G509 Series	✓	✓	–	–
EDS-518E Series	✓	✓	–	–
EDS-510E Series	✓	✓	–	–
EDS-518A Series	–	✓	–	–
EDS-510A Series	–	✓	–	–
EDS-G308-2SFP Series	✓	✓	✓	–
EDS-G205-1GTXSFP Series	✓	✓	–	–
EDS-210A Series	–	✓	✓	–
IM-2GSFP	–	✓	–	–
Industrial Secure Router				
EDR-G903/G902 Series	✓	✓	–	–
EDR-810 Series	–	✓	✓	–
Industrial PoE Switches				
EDS-G512E-8PoE Series	✓	✓	✓	–
EDS-P510A-8PoE Series	✓	✓	–	–
EDS-P510 Series	✓	✓	–	–
EDS-G205A-4PoE Series	✓	✓	–	–
IEC61850-3 Ethernet Switches				
PT-G7509 Series	✓	✓	–	–
PT-7528 FX Series	–	✓	✓	–
PM-7500-2G/4GTXSFP	✓	✓	–	–
PM-7200-2G/4GTXSFP		✓	–	–
PM-7200-8SFP Series	✓	–	–	–
Industrial Media Converter				
IMC-21GA	–	✓	–	–
IMC-101G Series	–	✓	–	–

Note: For 10Gb core switches, the 10G SFP port slot can only support a 10G SFP transceiver.