SFP-10G Series

1-port 10 Gigabit Ethernet SFP+ modules

Features and Benefits

- Digital Diagnostic Monitor Function

- Compliant with IEEE 802.3ae

- SFF-8432 SFP+ MSA compliant

- Hot pluggable LC duplex connector

- Class 1 Laser International Safety Standard IEC 60825-1 compliant

- RoHS compliant

Certifications

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Introduction

The SFP-10G Series 1-port 10 Gigabit Ethernet SFP+ modules are available as optional accessories for a wide range of Moxa switches.

Specifications

Ethernet Interface

Connectors	Duplex LC connector

Optical Fiber

					10G Ethernet SFP			
		SFP-SR				SFP-LR	SFP-ER	SFP-ZR
Transceiver Type		Multi-mode				Single-mode	Single-mode	Single-mode
Fiber Cable Type		OM1	OM2	OM3	OM4	G.652	G.652	G.652
Typical Distance		33 m	82 m	300 m	400 m	10 km	40 km	80 km
Wave-length	Typical (nm)	850				1310	1550	1550
	TX Range (nm)	840 to 860				1260 to 1355	1530 to 1565	1530 to 1565
	RX Range (nm)	840 to 860				1260 to 1355	1530 to 1565	1530 to 1565
Optical Power	TX Range (dBm)	-1 to -5				-8.2 to +0.5	-1 to +2	0 to +4
	Max. Rx (dBm)	+0.5				+0.5	-1	-7
	Link Budget (dB)	8.3				7.4	15	23
	Dispersion Penalty (dB)	3.9				3.2	3	3

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

Typical Distance: To reach the typical distance of specified fiber transceiver, please refer to formula: Link budget(dB) > dispersion penalty(dB) + total link loss(dB)

Power Parameters

Power Consumption	SFP-10GSRLC: Max. 1.5 W SFP-10GLRLC: Max. 1.5 W SFP-10GERLC: Max. 1.5 W SFP-10GSRLC-T: Max. 1 W SFP-10GLRLC-T: Max. 1 W SFP-10GERLC-T: Max. 2.2 W SFP-10GZRLC-T: Max. 2.5 W

Environmental Limits

Operating Temperature	Standard Models: 0 to 60°C (32 to 176°F) Wide Temp. Models: -40 to 85°C (-40 to 185°F) Note: When the SFP-10GERLC is used with the ICS-G7750A/G7752A/G7850A/G7852A series, the operating temperature is 0 to 55°C (32 to 131°F) Note: Wide temperature SFP-10G can be used with ICS-G7526A/G7528A/G7826A/ G7828A series only. When the SFP-10GZRLC-T used, the operating temperature is -40 to 60°C (-40 to 176°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	Standard Models: CE, FCC, TÜV, UL 60950-1, Wide Temp. Models: CE, FCC, IEC 60825-1, UL 62368-1, IEC 62368-1, EN 62368-1

Warranty

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

Package Contents

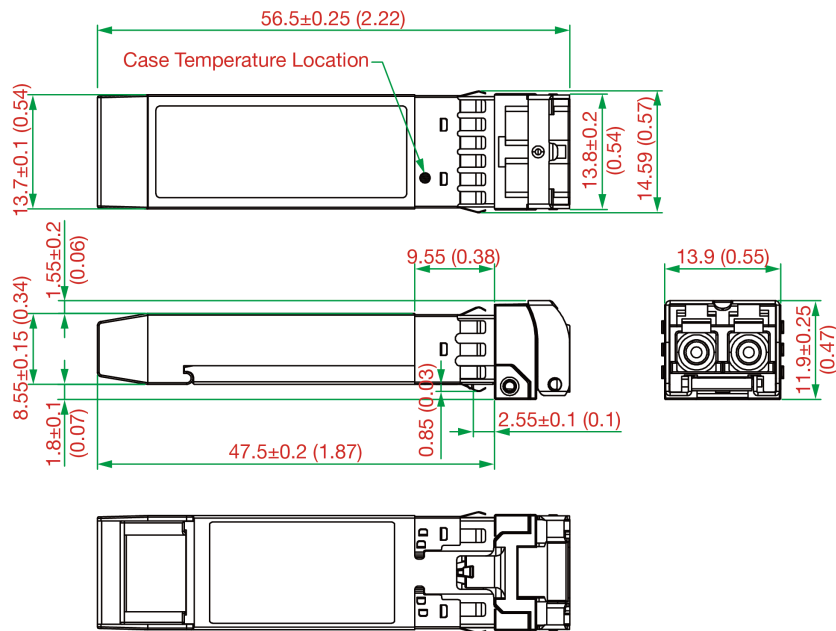| Device	1 x SFP-10G Series module
Documentation	1 x warranty card

Dimensions

SFP–10G Series Standard Temperature Models
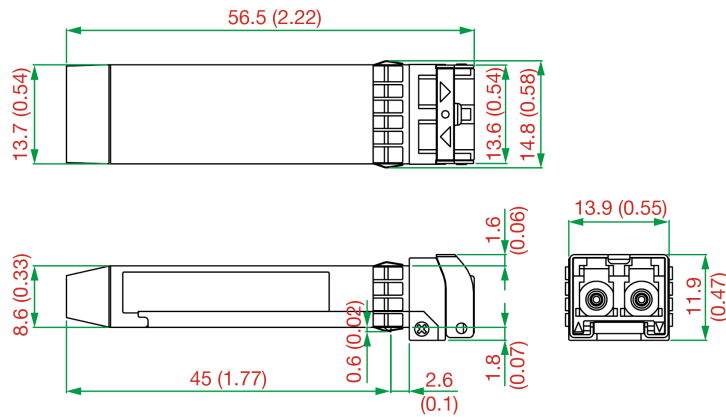
Unit: mm (inch)

SFP–10G Series Wide Temperature Models

Unit: mm (inch)

Ordering Information

Model Name	Ports	Connector	Transmission Distance	Operating Temp.
SFP-10GSRLC	1 x 10GBase-SR, multi-mode	LC	33 m/82 m/300 m/400 m	0 to 60°C
SFP-10GSRLC-T	1 x 10GBase-SR, multi-mode	LC	33 m/82 m/300 m/400 m	-40 to 85°C

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Model Name	Ports	Connector	Transmission Distance	Operating Temp.
SFP-10GLRLC	1 x 10GBase-LR, single-mode	LC	10 km	0 to 60°C
SFP-10GLRLC-T	1 x 10GBase-LR, single-mode	LC	10 km	-40 to 85°C
SFP-10GERLC	1 x 10GBase-ER, single-mode	LC	40 km	0 to 60°C
SFP-10GERLC-T	1 x 10GBase-ER, single-mode	LC	40 km	-40 to 85°C
SFP-10GZRLC-T	1 x 10GBase-ZR, single-mode	LC	80 km	-40 to 85°C

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