

Product Data Sheet

10-GbE XFP and SFP+ Transceiver Modules

Overview

The 10-GbE XFP and SFP+ Transceiver Modules enable you to take advantage of 10-GbE connectivity.

Choose from:

- 10GBASE-LR XFP, Single-Mode, 1310-nm, LC, 10 km (LXP-10G-SMLC10)
- 10GBASE-LR XFP, Multimode, 850-nm, LC, 300 m (LXP-10G-MMLC)
- 10GBASE-SR SFP+, 1310-nm Single-mode, 10 km, LC with external diagnostics (LSP422)
- 10GBASE-SR SFP+, 850-nm Multimode, 300 m, LC with external diagnostics (LSP421)



LXP-10G-MMLC



LSP422

Basic Features

- Provides 10-GbE extension.
- Single-mode and multimode fiber transceivers available.

Comparison Chart: XFP and SFP+ Transceivers

Product Code	Description
LXP-10G-SMLC10	10GBASE-LR XFP, Single-Mode, 1310-nm, LC, 10 km
LXP-10G-MMLC	10GBASE-LR XFP, Multimode, 850-nm, LC, 300 m
LSP422	10GBASE-SR SFP+, 1310-nm Single-mode, 10 km, LC
LSP421	10GBASE-SR SFP+, 850-nm Multimode, 300 m, LC

10GBASE-LR XFP Modules (LXP-10G-SMLC10, LXP-10G-MMLC)

Features

- XFP optical transceiver for 10GBASE-LR (long-range) or 10GBASE-SR (short-range) fiber extensions up to 10 kilometers (6.2 mi.) or 300 meters (984.2 ft.).
- Supports 10-Gigabit (10-GbE) communications within the 9.95 Gbps–11.32 Gbps range.
- Great for telecoms and enterprises requiring long-distance 10-GbE fiber extension.



LXP-10G-MMLC

LXP-10G-SMLC10, LXP-10G-MMLC, LXP-10G-CX4 Specifications

Approvals	CE
Connector	LC
Distance	LXP-10G-SMLC10: 10 km; LXP-10G-MMLC: 300 m
Cable Type	LXP-10G-SMLC10: Single-mode fiber; LXP-10G-MMLC: Multimode fiber
Link Budget	LXP-10G-SMLC10: 7.4 dBm; LXP-10G-MMLC: 4.7 dBm
Wavelength	LXP-10G-SMLC10: 1310 nm; LXP-10G-MMLC: 850 nm
Power	LXP-10G-SMLC10: Min. TX power: -5.2 dBm; Max. TX power: -0.5 dBm; Min. RX sense: -12.6 dBm; Max. RX power: 0.5 dBm; LXP-10G-MMLC: Min. TX power: -2.8 dBm; Max. TX power: -1 dBm; Min. RX sense: -7.5 dBm; Max. RX power: 0.5 dBm
Dimensions	0.51"H x 2.25"W x 0.5"D (1.3 x 5.7 x 1.3 cm)
Weight	0.06 lb. (0.03 kg)

10GBASE-LR or 10GBASE-SR SFP+ Module with External Diagnostics (LSP422 and LSP421)

Features

- SFP+ optical transceiver for 10GBASE-LR (long-range) single-mode fiber extensions up to 10 kilometers (6.2 mi.) or 10GBASE-SR (short-range) multimode fiber extensions up to 300 meters (984.2 ft.).
- Supports 10-Gigabit (10-GbE) communications within the 9.95–11.32 Gbps range.
- Great for telecoms and enterprises requiring long-distance 10-GbE fiber extension.



LSP422

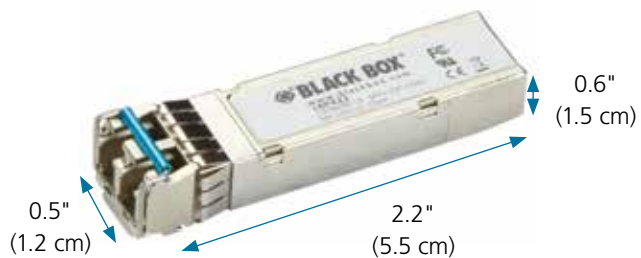
LSP422 or LSP421 Specifications

Approvals	CE
Connector	Duplex LC
Distance	LSP422: 10 km; LSP421: 300m
Fiber Type	LSP422: Single-mode, 9/125- μ m; LSP421: Multimode, 50/125- μ m
Laser Diode	LSP422: DFB (Distributed Feedback Laser); LSP421: VCSEL (vertical-cavity surface-emitting laser)
Wavelength	LSP422: 1310 nm; LSP421: 850 nm
Power	Source: From SFP+ cage; Input Voltage: V_{cc} : 3.135 min., 3.3 V, 180 mA typical, 3.465 V, 300 mA max.
Environment	Temperature Tolerance: Operating: 32 to 158° F (0 to 70° C); Storage: -40 to +185° F (-40 to +85° C); Humidity: Operating: 5 to 85%, noncondensing; Altitude: 5905 ft. (1800 m)
Dimensions	0.6"H x 2.2"W x 0.5"D (1.5 x 5.5 x 1.2 cm)
Weight	0.04 lb. (0.02 kg)

Dimensional diagram for LXP-10G-SMLC10 and LXP-10G-MMLC.



Dimensional diagram for LSP421 and LSP422.



Ordering Information

Item	Code
10-GbE XFP and SFP+ Transceiver Modules	
10GBASE-LR XFP, Single-Mode, 1310-nm, LC 10 km	LXP-10G-SMLC10
10GBASE-SR SFP+, Multimode, 850-nm, LC 300 m	LXP-10G-MMSC
Transceiver Modules with External Diagnostics	
10GBASE-LR SFP+, Single-Mode, 1310-nm, LC 10 km	LSP422
10GBASE-LR SFP+, Multimode, 850-nm, LC 300 m	LSP421

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