LFP418

SFP — 1250-MBPS 1550-NM, SM FIBER, 80 KM, LC

BLACK BOX

LFP418
SFP/1250 EXT DIAG
SM 1550 LC 80KM

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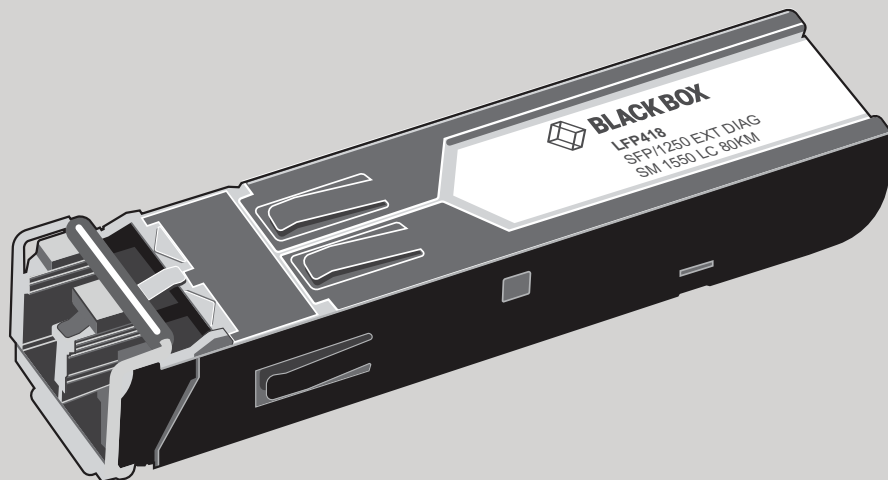
OVERVIEW

LFP410 SERIES SFP — 1250-MBPS, EXTENDED DIAGNOSTICS, 1550-NM SINGLE-MODE FIBER, 80-KM, LC (LFP418) DATA SHEET

INTRODUCTION

The LFP418 Small Form Factor Pluggable (SFP) transceiver module is specifically designed for a high performance integrated duplex data link over single-mode optical fiber. This transceiver module complies with the SFP Multisource Agreement (MSA). Because the module is hot pluggable, it is easy to install into SFP MSA compliant ports at any time without interrupting the host equipment operating online.

The LFP418 SFP transceiver uses a long wavelength (1550 nm) DFB laser diode to enable data transmission up to 49.7 miles (80 km) on a single-mode (9/125 μm) optical fiber.

FEATURES

- HOT PLUGGABLE
- COMPLIES WITH SFP MULTI-SOURCE AGREEMENT
- SUPPORTS SERIAL ID FUNCTION
- COMPLIES WITH 1.25-GBPS ETHERNETSTANDARD
- INCLUDES A SINGLE +3.3-V POWER SUPPLY
- HAS AN LC DUPLEX RECEPTACLE
- HAS A 1550-NM DFB LASER
- COMPLIES WITH CLASS 1 LASER SAFETY STANDARD IEC 825
- REACHES UP TO 49.7 MILES (80 KM)
- DISSIPATES LOW POWER

APPLICATIONS

- GIGABIT ETHERNET
- HIGH-SPEED I/O FOR FILE SERVER
- MASS STORAGE SYSTEM I/O
- HOST ADAPTER I/O
- BUS EXTENSION

COMPARISON CHART

BLACK BOX LFP410 SERIES FIBER SFP MODULES		
PART NUMBER	DESCRIPTION	DISTANCE
1-GBPS CONNECTIONS		
LFP411	SFP 1250-Mbps, 850-nm Multimode Fiber, LC	550 m
LFP412	SFP 1250-Mbps, 1310-nm Multimode Fiber, LC	2 km
LFP413	SFP 1250-Mbps, 1310-nm Single-mode Fiber, LC	10 km
LFP414	SFP 1250-Mbps, 1310-nm Single-mode Fiber, LC	80 km
LFP418	SFP 1250, Extended Diagnostics, 1550-nm Single-mode Fiber, LC	80 km
LFP420	SFP 1250-Mbps, 1550-nm TX, 1310-nm RX, Single-Mode Fiber, Simplex LC	10 km
LFP421	SFP 1250-Mbps, 1310-nm TX, 1550-nm RX, Single-Mode Fiber, Simplex LC	10 km

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SPECIFICATIONS

LFP410 SERIES SFP — 1250-MBPS, EXTENDED DIAGNOSTICS, 1550-NM SINGLE-MODE FIBER, 80-KM, LC (LFP418)
DATA SHEET

SPECIFICATIONS (LFP418)	
CONNECTOR	Duplex LC
DISTANCE	Up to 49.7 mi. (80 km)

ELECTRO-OPTICAL CHARACTERISTICS	Receiver:
	  Sensitivity: -24 dBm,
	  Wavelength: 1200 nm min., 1600 nm max.;
	Transmitter:
	  Output: -2 dBm min., +3 dBm max.,
	  Wavelength: 1520 nm min., 1580 nm max.

FIBER TYPE	9/125 µm single-mode
SPEED	1250 Mbps
WAVELENGTH	1550 nm
OPERATING TEMPERATURE	-40 to +185° F (-40 to +85° C)
STORAGE RELATIVE HUMIDITY	5 to 95%
SUPPLY VOLTAGE	-0.5 to 4.0 V
SUPPLY VOLTAGE, OPERATING	3.1 to 3.5 V, 3.3 V typical
SUPPLY CURRENT, OPERATING	Up to 300 mA, 180 mA typical
DIMENSIONS	0.48"H x 0.59"W x 2.2"D (1.24 x 1.5 x 5.6 cm)
COMPLIANCE	Class 1 Laser Safety standard IEC 825

DIMENSIONAL DIAGRAM
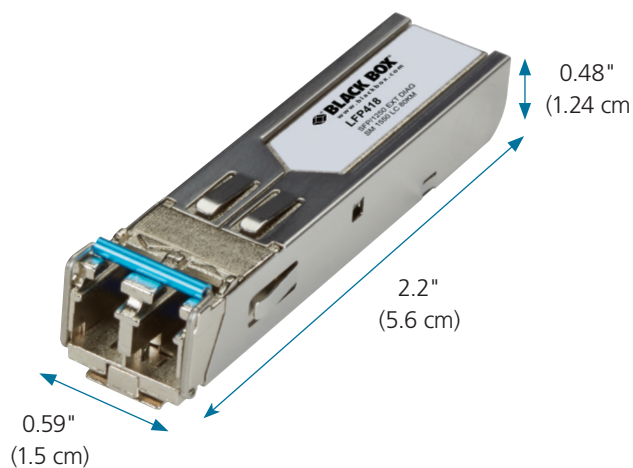
ORDERING INFORMATION

ITEM	CODE
SFP 1250-Mbps, 1550-nm Single-mode Fiber, 80 km, LC	**LFP418**

ABOUT BLACK BOX

Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

NOTES

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