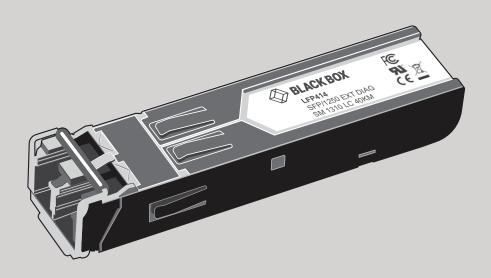
LFP414

# SFP — 1250-MBPS 1310-NM, SM FIBER, 40 KM, LC

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM





## **OVERVIEW**

LFP410 SERIES SFP — 1250-MBPS, EXTENDED DIAGNOSTICS, 1310-NM SINGLE-MODE FIBER, 40-KM, LC (LFP414) DATA SHEET

## INTRODUCTION

The LFP414 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 LFP414 SFP transceiver uses a long wavelength (1310 nm) DFB laser diode to enable data transmission up to 24.8 miles (40 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 1310-NM DFB LASER
- COMPLIES WITH CLASS 1 LASER SAFETY STANDARD IEC 825
- REACHES UP TO 24.8 MILES (40 KM)
- DISSIPATES LOW POWER
- SUPPORTS EXTENDED DIAGNOSTICS

## **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	40 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				

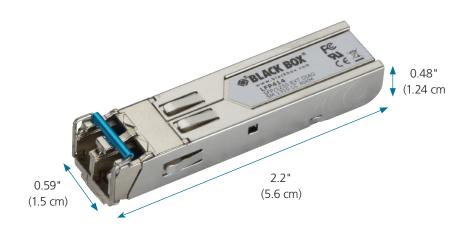


# **SPECIFICATIONS**

 $LFP410 \ SERIES \ SFP-1250-MBPS, EXTENDED \ DIAGNOSTICS, 1310-NM \ SINGLE-MODE \ FIBER, 40-KM, LC \ (LFP414)$  DATA SHEET

SPECIFICATIONS (LFP414)		
CONNECTOR	Duplex LC	
DISTANCE	Up to 24.8 mi. (40 km)	
ELECTRO-OPTICAL CHARACTERISTICS	Receiver: Sensitivity: -23 dBm, Wavelength: 1270 nm min., 1580 nm max.; Transmitter: Output: -2 dBm min., +3 dBm max., Wavelength: 1270 nm min., 1355 nm max.	
FIBER TYPE	9/125 μm single-mode	
SPEED	1250 Mbps	
WAVELENGTH	1310 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, 1310-nm Single-mode Fiber, 40 km, LC	LFP414

## **DISCLAIMER**

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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.

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