

# FXC-XFPCxx-ER10G-ADV



#### **Features**

- · Operating Data Rates up to 11.1 Gbps
- Distance Range 40KM
- Pluggable XFP Duplex LC Connectors

## **Applications**

- Telecom (Service Providers)
- Datacom
- · Enterprise Networks

- Standard and Industrial Operating Temperatures
- Compliant with Adva Specification
- Government
- · Fiber to the Home / Business

# **Description**

The L-com FXC-XFPCxx-ER10G-ADV is the highest quality XFP transceiver series in the industry that delivers a dependable 10G data rate at operating wavelengths from 1470 to 1610 nm. This XFP CWDM transceiver series has been designed, programmed and tested to be 100% compliant with the Adva system level specifications. The L-com FXC-XFPCxx-ER10G-ADV series supports a distance up to 40 km to meet current and future networking requirements. The L-com FXC-XFPCxx-ER10G-ADV series features digital diagnostics for performance monitoring of the transceiver. The L-com FXC-XFPCxx-ER10G-ADV series is one of thousands of fiber optic connectivity products available from L-com's in-stock inventory and ready to ship. Contact our knowledgeable technical support and sales staff with your questions on fiber optic connectivity or other L-com products.

#### Configuration

Data Rate11.1 GbpsForm FactorXFPConnectorLCConnector ModeDuplexModeSingle ModeDistance40 kmMfg Platform CompatibilityAdva

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Power Supply Voltage (Vcc3)	3.13	3.3	3.45	V
Power Supply Current (Icc3)			300	mA
Module Total Power			3.5	W
Power Supply Voltage (Vcc5)	4.75	5	5.25	V
Power Supply Current (Icc5)			750	mA

#### **Optical Specifications**

Description	Minimum	Typical	Maximum	Units
TX Center Wavelength	λc-6	λc	λc+7.5	nm

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: FXC-XFPCxx-ER10G-ADV



# **FXC-XFPCxx-ER10G-ADV**

TX Data Rate	9.95	11.1	Gbps
TX Average Output Power	-0.9	4	dBm
TX Extinction Ratio	8.2		dB
RX Center Wavelength	1260	1620	nm
RX Receiver Sensitivity		-15	dBm

<sup>\*</sup>See table below

# Wavelength Channel No.

ITU Channel No.	Wavelength	Latch color by wavelength
(xx)	nm	
47	1471	
49	1491	
51	1511	
53	1531	
55	1551	
57	1571	
59	1591	
61	1611	



# **FXC-XFPCxx-ER10G-ADV**



Environmental Specifications
Temperature

Operating Range Storage Range 0 to +70 deg C -40 to +85 deg C

Notes:

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:



# **FXC-XFPCxx-ER10G-ADV**



# **Table 1 Module Electrical Pin Definition**

Pin	Logic	Symbol	Name/Description	Note
1		GND	Module Ground	
2		VEE5	Optional -5.2V Power Supply	
3	LVTTL-I	Mod_DeSel	Module De-select; When held low allows module to respond to 2-wire serial interface	
4	LVTTL-O	Interrupt	Interrupt; Indicates presence of an important condition which can be read over the 2-wire serial interface	
5	LVTTL-I	TX_DIS	Transmitter Disable; Turns off transmitter laser output	
6		VCC5	+5V Power Supply	
7		GND	Module Ground	
8		VCC3	+3.3V Power Supply	
9		VCC3	+3.3V Power Supply	
10	LVTTL-I/O	SCL	2-Wire Serial Interface Clock	2
11	LVTTL-I/O	SDA	2-Wire Serial Interface Data Line	2
12	LVTTL-O	Mod_Abs	Indicates Module is not present. Grounded in the Module	2
13	LVTTL-O	Mod_NR	Module Not Ready; Indicating Module Operational Fault	2
14	LVTTL-O	RX_LOS	Receiver Loss Of Signal Indicator	2
15		GND	Module Ground	1
16		GND	Module Ground	1
17	CML-O	RD-	Receiver Inverted Data Output	
18	CML-O	RD+	Receiver Non-Inverted Data Output	
19		GND	Module Ground	1
20		VCC2	+1.8V Power Supply	3
21	LVTTL-I	P_Down/RST	Power down; When high, requires the module to limit power consumption to 1.5W or below. 2-Wire serial interface must be functional in the low power mode.	
			Reset; The falling edge initiates a complete reset of the module including the 2-wire serial interface, equivalent to a power cycle.	
22		VCC2	+1.8V Power Supply	3
23		GND	Module Ground	1
24	PECL-I	RefCLK+	Reference Clock Non-Inverted Input, AC coupled on the host board	
25	PECL-I	RefCLK-	Reference Clock Inverted Input, AC coupled on the host board	
26		GND	Module Ground	1
27		GND	Module Ground	1
28	CML-I	TD-	Transmitter Inverted Data Input	
29	CML-I	TD+	Transmitter Non-Inverted Data Input	
30		GND	Module Ground	1

<sup>1.</sup> Module ground pins Gnd are isolated from the module case and chassis ground within the modul

<sup>2.</sup> Shall be pulled up with 4.7K-1 ohms to a voltage between 3.15V and 3.45V on the host board.

<sup>3.</sup> The 1.8 V wer supply can be optionally programmed to voltages lower than 1.8 V in modules supporting the variable power supply.



## **FXC-XFPCxx-ER10G-ADV**



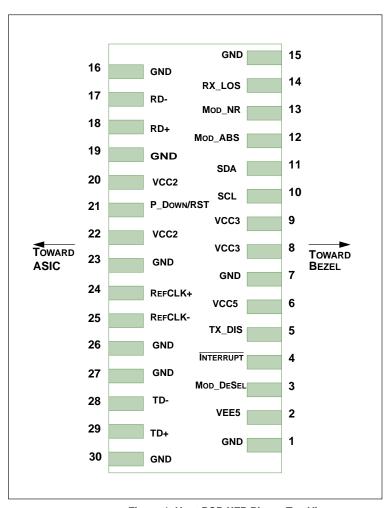


Figure 1 Host PCB XFP Pinout Top View



# FXC-XFPCxx-ER10G-ADV



Fiber Optic Transceiver Series, XFP, CWDM, 40 km, 10G DDM, Adva Compatible from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

## **L-com CAD Drawing**

