

# XFP-LR40-Cxx 10 Gb/s XFP CWDM Transceiver

## INTRODUCTION

The XFP-LR40-Cxx is an optical transceiver module for high-speed, 10Gbit/s data transmission applications. The module is fully compliant to IEEE 802.3ae standard for Ethernet and the 10GFC Rev. 4 Fiber Channel standard, making it ideally suited for 10 GbE telecom, datacom and storage area network (SAN / NAS). Designed for distances of 10km-40km the transceiver module comprises an uncooled CWDM DFB transmitter and a receiver with an PIN receiver. The transceiver operates within a wide temperature range of 0°C to +70°C and offers optimum heat dissipation, low power consumption and excellent electromagnetic shielding. The transceiver is fully compliant to the XFP MSARev. 4.5.

CWDM modules operate at nominal Coarse Wavelength Division Multiplexing (CWDM) wavelengths. There are eighteen center wavelengths available from 1271 nm to 1611 nm, with each step being 20 nm. The CWDM characteristics are fully compliant to the wavelength parameters specified in ITU standards G.694.2 and G.695.

# **APPLICATIONS**

- IEEE 802.3ae 10GBASE-LR 10.3125 Gb/s
- CWDM Metro Systems
- IP Core Networks

## **FEATURES**

- Compatible with XFP MSA Rev. 4.5
- 18 CWDM lambdas (I): 1270 nm 1610 nm
- Compliant to IEEE 802.3ae 10GBASE-LR at 10.3125 Gbit/s
- Up to 40 km transmission on 9/125 SM fiber G.652
- 16 dB link budget
- Hot pluggable 30 pin connector
- uncooled DFB laser
- Duplex LC-connector interface
- Compliant with the EU RoHS 6 Environmental Requirements

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Specification subject to change without notice.

### LASER SAFETY

This optical transceiver is a Class 1M laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module need to be terminated with an optical connector or with a dust plug.

# **Ordering Information**

| Part no:     | Description/Application                                                                                                                                                                     |  |  |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| XFP-LR40-Cxx | XFP, 10G Base-LR, 9.5-10.7 Gbps, CWDM, 16 dB<br>40 km transmission for C27 to C33,20 km transmission for C35 to C47<br>15 km transmission for C49 to C57,10 km transmission for C59 and C61 |  |  |

-C27 = CWDM 1270 nm

-C29 = CWDM 1290 nm

-C31 = CWDM 1310 nm

-C33 = CWDM 1330 nm

# **Optical Parameters**

| Part no. Parameter | Wavelength [nm] | Opt. Output Power<br>[dBm] | Opt. Receiver<br>Sensitivity [dBm] | Power Budget[dB] |
|--------------------|-----------------|----------------------------|------------------------------------|------------------|
| XFP-LR40-Cxx       | CWDM            | +1 to +5                   | -15 to 0                           | 16 dB            |

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