

FOR CXR-QX3440

FIBER OPTICAL INTERFACE

FEATURES

Support 1 + 1 protection function

Support ring protection function

Support remote management via EOC channel

Provide multi-color LED indicator

Introduction

CXR's fiber optical interface is designed for CXR-QX3440 as embedded 1 or 4 E1 fiber optical modem. This plugged-in card can be used to aggregate 1 or 4 E1 channels to single fiber optical interface to connect with other CXR-QX3440.

Ordering information

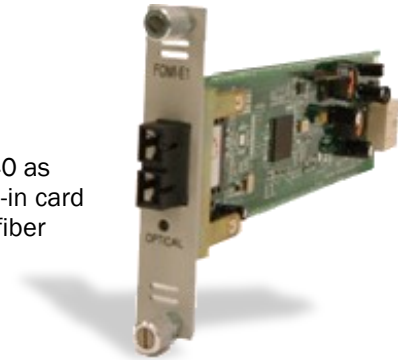
To specify options, choose from list below:

Model (RoHS compliant)	Description	Note
QX3440-4E1FO-OPT	Fiber Optical Interface	For QX3440 & QX3440-S only

n where **opt** is used to select optical module type:

opt =	Description	Note
SM30-SC	single optical module with dual uni-directional fiber, 1310 nm, SC optical connector, 30 km reach (19dB) - S1.1 physical layer*	Use 2 fibers * ITU-T Rec G.957 application code
SM50-SC	single optical module with dual uni-directional fiber, 1310 nm, SC optical connector, 50 km reach (30dB) - L1.1 physical layer*	
SM30-FC	single optical module with dual uni-directional fiber, 1310 nm, FC optical connector, 30 km reach (20dB) - S1.1 physical layer*	
SM20/15-SC	single optical module with dual uni-directional fiber, 1550 nm, SC optical connector, 20 km reach (12dB) - S1.2 physical layer*	
SM100-SC	single optical module with dual uni-directional fiber, 1550 nm, SC optical connector, 100 km reach (30dB) - L1.2 physical layer*	
SM30-W13-SC	single optical module with single bi-directional fiber (master), 1310 nm transmit and 1550 receive, SC optical connector, 30 km reach (20dB) - S1.1/ S1.2 physical layer*	1310 nm from master to slave Order SM-W13 to use with SM-W15 Use 1 fiber * ITU-T Rec G.957 application code
SM30-W15-SC	single optical module with single bi-directional fiber (slave), 1310 nm receive and 1550 transmit, SC optical connector, 30 km reach (20dB) - S1.1/ S1.2 physical layer*	1550 nm from slave to master Order SM-W15 to use with SM-W13 Use 1 fiber * ITU-T Rec G.957 application code
MM	Multimode, single optical module with dual uni-directional fiber, 1310 nm, SC optical connector, 2 km reach	

NOTE: For other special optical modules, please contact your nearest CXR sales representative.



Product Specifications

Fiber Optical Interface

Source	MLM Laser	Line Code	Scrambled NRZ
Wavelength	1310 ± 50 nm, 1550 ± 40 nm	Detector Type	PIN-FET
50 Km reach		Protection	Optional 1+1 APS

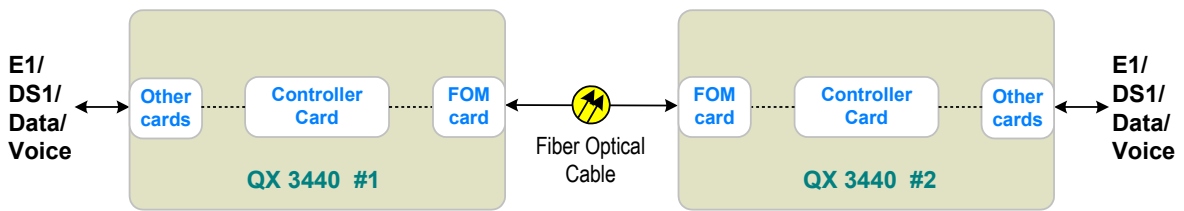
NOTE: Longer or shorter, 15 to 120Km, on special order.

Optical Fiber Interface Characteristics

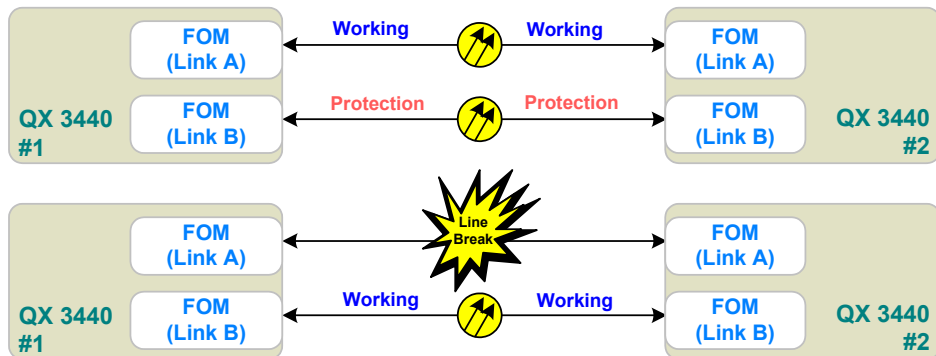
Optical Module	Fiber Direction	Wavelength (nm)	Connector	Distance (km)	Power (dB)
Single	Dual uni-direction	1310	SC (Subscriber Connector)	30	19
		1310	SC (Subscriber Connector)	50	30
		1310	FC (Fiber Connector)	30	20
		1550	SC (Subscriber Connector)	20	12
		1550	SC (Subscriber Connector)	100	30
Single	Single bi-direction (master)	1310/1550	SC (Subscriber Connector)	30	20
	Single bi-direction (slave)	1310/1550	SC (Subscriber Connector)	30	20

Application Illustrations

Point to Point



1 + 1 Protection



Ring Protection

