

Fiber Optical Interface (1FOMA)

FOR CXR-QX3440

Features

- 1 optical interface port (FOM) to connect with remote FOM interface for QX3440-A/C/D
- Designed for QX3440-A/C single long slots
- N x 64K bps cross-connection with 4E1 bandwidth
- Performance & Diagnosis
 - Performance monitoring
 - Alarm monitoring
 - Local Bert and loopback
- Protection
 - 1 + 1 protection function
 - FOM ring protection function
 - Supports APSD (Auto Power Shutdown)
- Management
 - Supports remote management via EOC channel
 - Provide multi-color LED indicator



Description

The 1FOMA fiber optical interface is a plug-in module that can be used in the standard single slots of the QX3440-A/C chassis. Designed for CXR-QX3440 as an embedded 1 or 4 E1 fiber optical modem, the 1FOMA interface is able to aggregate 1 or 4 E1 channels to single fiber optical interface and connect with FOM interface for CXR-QX3440-A/C/D.

Ordering Information

Model (RoHS compliant)	Description	Notes
CXR-QX3440-1FOMA- opt-G	1FOMA Fiber Optical Interface with 1x9 optical port	For QX3440-A/C only

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

opt =	Description	Note
SM30	Single optical module with dual uni-directional fiber, 1310 nm, SC optical connector, 30 km - S1.1	Use dual fiber Units delivered ITU-T G.957 application code
SM50	Single optical module with dual uni-directional fiber, 1310 nm, SC optical connector, 50 km - L1.1	Use dual fiber Units delivered ITU-T G.957 application code
SM30-FC	Single optical module with dual uni-directional fiber, 1310 nm, FC optical connector, 30 km - S1.1	Use dual fiber Units delivered ITU-T G.957 application code
SM100-1550	Single optical module with dual uni-directional fiber, 1550 nm, SC optical connector, 100 km - L1.2	Use dual fiber Units delivered ITU-T G.957 application code
SM30-WHD2S	Single optical module with single bi-directional fiber (master), 1310 nm transmit and 1550 receive, SC optical connector, 30 km - S1.1/ S1.2	1310 nm from master to slave Order SM30-WHD2S to use with SM30-WHE2S Use 1 fiber ITU-T G.957 application code
SM30-WHE2S	Single optical module with single bi-directional fiber (slave), 1310 nm receive and 1550 transmit, SC optical connector, 30 km - S1.1/ S1.2	1550 nm from slave to master Order SM30-WHE2S to use with SM30-WHD2S Use 1 fiber ITU-T G.957 application code

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	1 for 1 protection Optional 1+1 APS (future option)

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

Fiber Optical Interface Characteristics

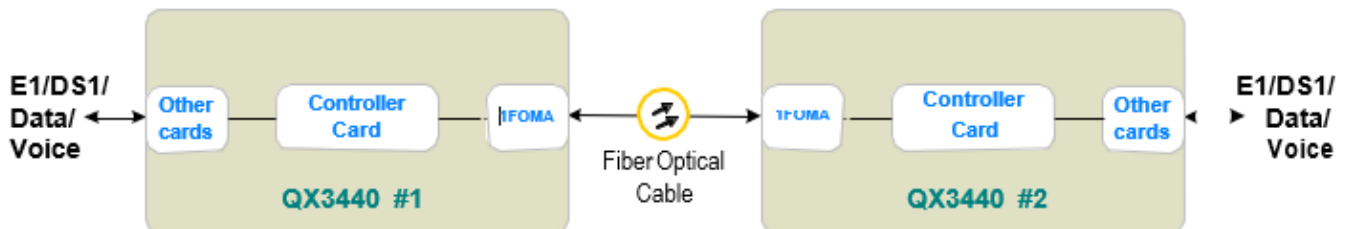
Optical Module	Fiber Direction	Wavelength (nm)	Connector	Distance (km)
SM30	Dual uni-directional	1310	SC (Subscriber Connector)	30
SM50	Dual uni-directional	1310	SC (Subscriber Connector)	50
SM30-FC	Dual uni-directional	1310	FC (Fiber Connector)	30
SM100-1550	Dual uni-directional	1550	SC (Subscriber Connector)	100
SM30-WHD2S	Single bi-directional (master)	1310/1550	SC (Subscriber Connector)	30
SM30-WHE2S	Single bi-directional (slave)	1550/1310	SC (Subscriber Connector)	30

NOTE: Other fiber optical options available on special order

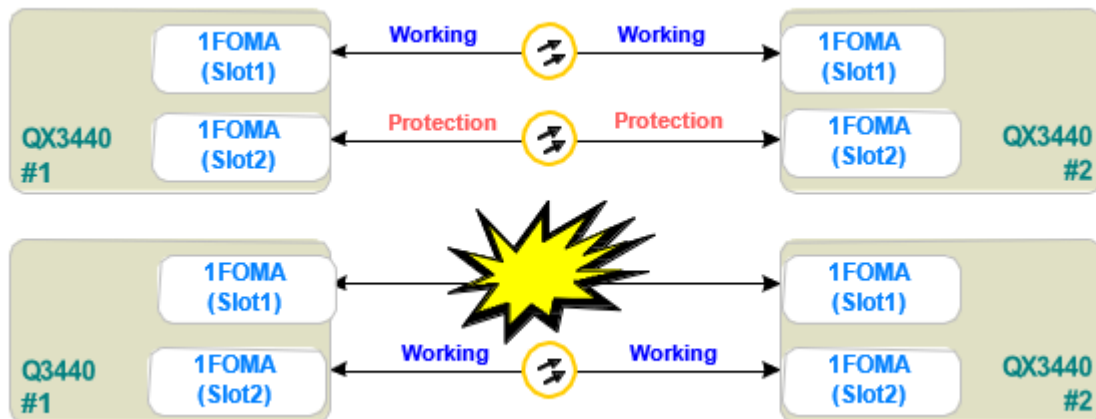
* For the orders of the listed optical module, please contact your CXR sales representative.

Application Illustrations

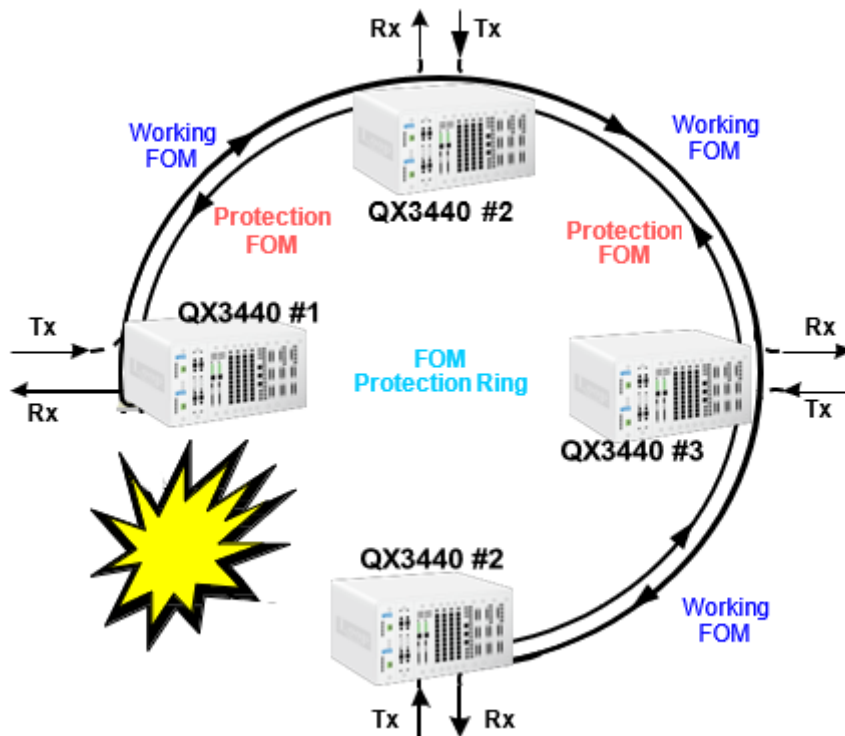
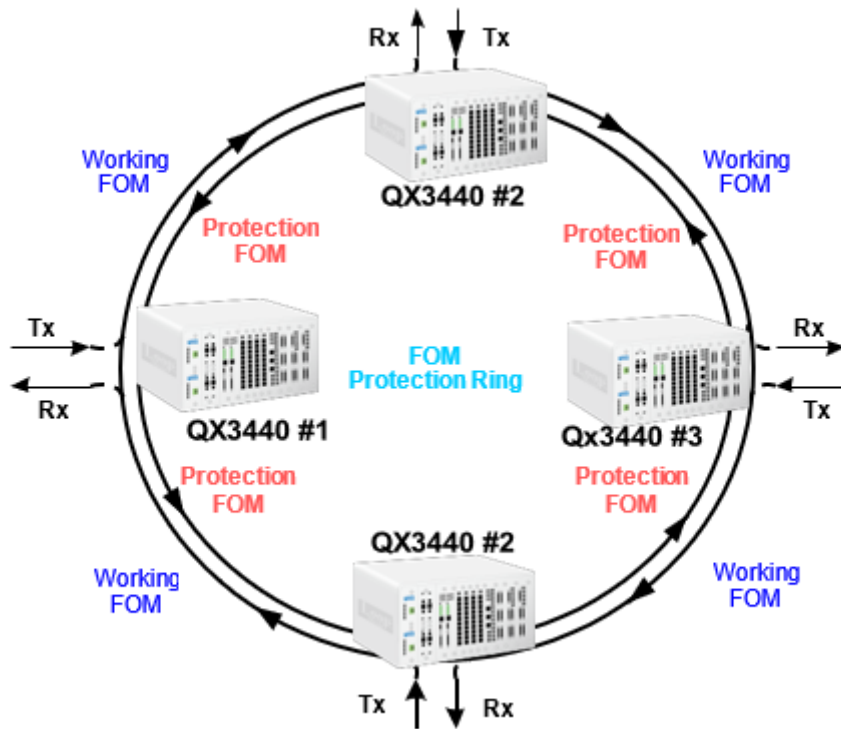
Point to Point



1 for 1 Protection



Ring Protection



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