



HX9500R-4C37.94 Interface Cards

LS-FIBER OPTICAL INTERFACE FOR HX9500R

Description

The LS-Fiber Optical interface is a low-speed single-slot plug-in card designed for HX9500R series to transport C37.94 teleprotection signals between power substations. Each port of the interface supports a configurable bandwidth of 1 to 12 DS0 (64K), and is protected by Automatic Laser Shutdown (ALS). Teleprotection signals are then cross-connected by the XCU to merge onto E1/T1, SDH/SONET, or Packet Network for transportation. Link and module integrity can be diagnosed via loopback signals.



4-port Optical Fiber 4-port SFP

Features

- ✓ Optical fiber interface for C37.94 signals
- ✓ 4-port per card
- ✓ Per-port data rate up to 12 x DS0(64kb)
- ✓ Loopback and BERT for diagnostics
- ✓ Multi-color LED indicators
- ✓ With ALS (Automatic Laser Shutdown)
- ✓ 4-port SFP for HX9500R-CCPA:
 - Use with LC connector SFP 850 optical module

Specifications

820nm

Ordering Code
ZRATT
Wavelength (nm)
820

Mode
1*8 Multi-Mode
Distance (km)
2

Data Rate (Mb/s)
2.048Mbps
Connector
ST

TX Power (dBm Peak)				RX Power (dBm Peak)				Note
MIN.	TYP.	MAX.	Wavelength	MIN.	TYP.	MAX.	Wavelength	
-19.8	---	-12.8	Min: 792 Typ: 820 Max: 865	---	---	---	---	50/125µm Fiber Cable
-16	---	-9		---	---	---	---	62.5/125µm Fiber Cable
---	---	---	---	---	---	-40	Min: 792 Typ: 820 Max: 865	Peak Optical Input Power Logic Level HIGH
---	---	---	---	-24.0	---	-10.0		Peak Optical Input Power Logic Level LOW

850nm

Ordering Code
QRATT
Wavelength (nm)
850

Mode
1*9 Multi-Mode
Distance (km)
2

Data Rate (Mb/s)
2.048Mbps
Connector
ST

TX Power (dBm Peak)				RX Power (dBm Peak)				Note
MIN.	TYP.	MAX.	Wavelength	MIN.	TYP.	MAX.	Wavelength	
-23	---	-11	790/--/870	-32	---	-11	790/--/870	50/125µm Fiber Cable
-19	---	-11		-32	---	-11		62.5/125µm Fiber Cable

For SFP module SFP-MRATD for HX9500R-4C37.94-SFPA:

850nm

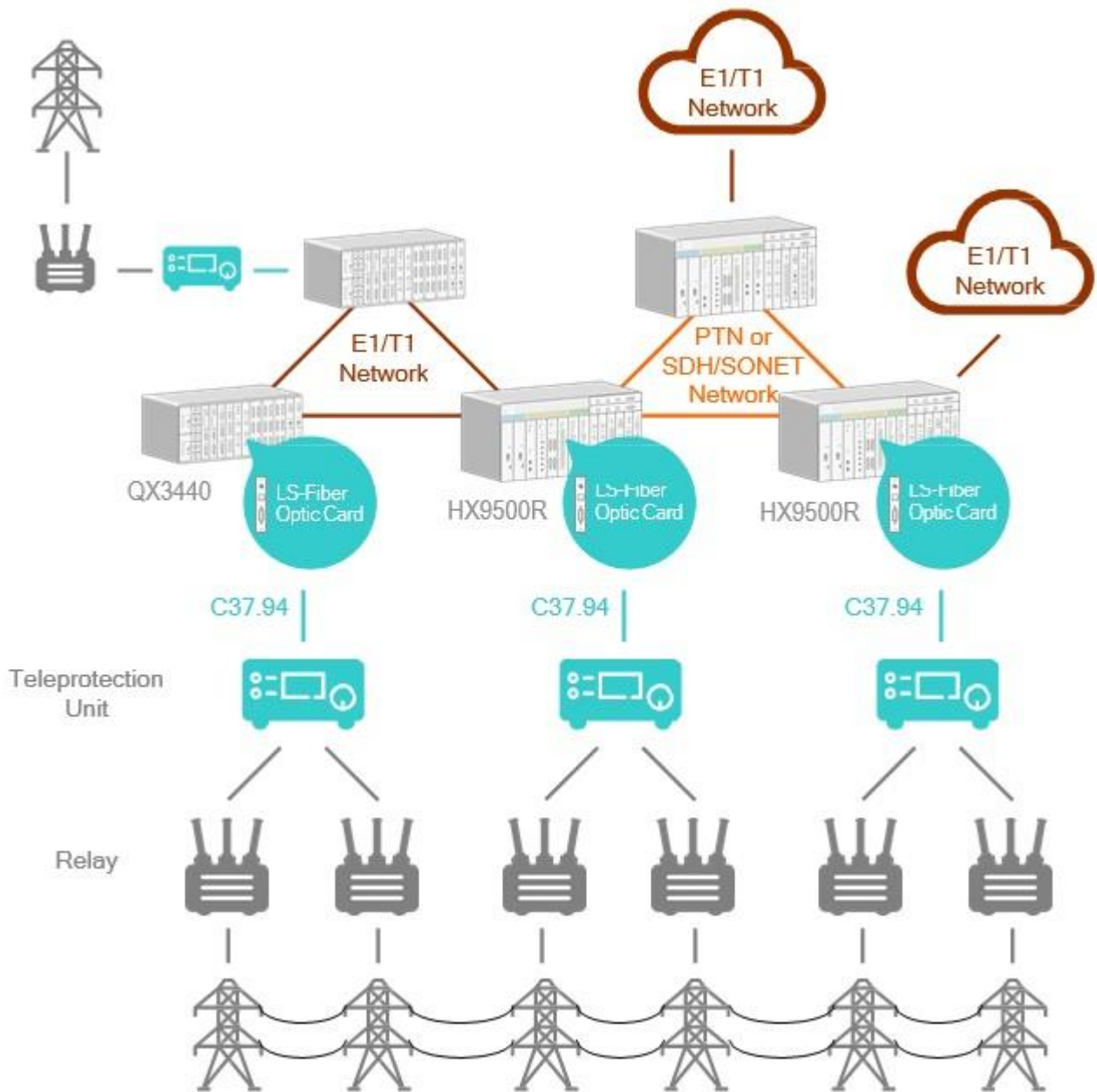
Ordering Code
MRATD
Wavelength (nm)
850

Mode
SFP Multi-Mode
Distance (km)
2

Data Rate (Mb/s)
2Mbps
Connector
LC

TX Power (dBm Peak)				RX Power (dBm Peak)				Note
MIN.	TYP.	MAX.	Wavelength	MIN.	TYP.	MAX.	Wavelength	
-23	---	-11	Min: 830 Typ: 850 Max: 860	---	---	---	---	50/125µm Fiber Cable
-19	---	-11		---	---	---	---	62.5/125µm Fiber Cable
---	---	---	---	---	---	-32	Min: 790 Max: 870	Optical Input Power Minimum (Sensitivity)
---	---	---	---	-8	---	---		Optical Input Power Maximum

Application



Ordering Information

Note 1: Before purchasing, please check the HX9500R main brochure to see if the following models are supported by the controller to be used with.

Models

Ordering Code	Description
HX9500R-4C37.94-820	4x fiber optic C37.94 interface card with ST connectors. 2km, MM 820 nm
HX9500R-4C37.94-850	4x fiber optic C37.94 interface card with ST connectors. 2km, MM 850 nm
HX9500R-4C37.94-SFPA	4x fiber optic C37.94 interface card with SFP connectors (W/O SFP)

Accessories

SFP Optical Module	
SFP-MRATD	SFP MM Dual fiber, data rate 2M, Wavelength 850nm, Distance 2km, connector LC/DDM , for HX9500R-4C37.94-SFPA