

# fiber options

## OH-TR-54-XXXX-LC Fiber SFP Data Sheet

### Data Optical Transceiver - CWDM

- Data optical transceiver
- Receiver and transmitter in single package
- Data rate 1.25Gbps compatible with SONET OC-24-LR-1
- 18 CWDM wavelength selections according to ITU-T G694.2
- Receive wavelengths 1260 to 1620nm according to ITU-T G694.2
- TX Distances up to 40km\*\*
- For use with yellobrik and Series 5000 product lines
- Pluggable and hot swappable
- Lead free and RoHS compliant

The OH-TR-54-XXXX-LC Data optical transceiver is a plug in option for select LYNX Technik yellobrik and Series 5000 products. This SFP module includes a receiver and a transmitter which facilitates the conversion of an electrical data signal into an optical signal for transmission over fiber, and will also receive an optical data signal for conversion to an electrical signal for further processing. 18 CWDM wavelength selections are provided and it is suitable for distances up to 40km\*\*

A socket, or "cage" is provided for the SFP in the supporting LYNX product for easy installation or upgrade. The SFP is hot swappable.

### Ordering Information

| EAN / UPC     | Model            | Description                          |
|---------------|------------------|--------------------------------------|
| 4250479312753 | OH-TR-54-1270-LC | Data Fiber Transceiver CWDM - 1270nm |
| 4250479312951 | OH-TR-54-1290-LC | Data Fiber Transceiver CWDM - 1290nm |
| 4250479313156 | OH-TR-54-1310-LC | Data Fiber Transceiver CWDM - 1310nm |
| 4250479313354 | OH-TR-54-1330-LC | Data Fiber Transceiver CWDM - 1330nm |
| 4250479313552 | OH-TR-54-1350-LC | Data Fiber Transceiver CWDM - 1350nm |
| 4250479313750 | OH-TR-54-1370-LC | Data Fiber Transceiver CWDM - 1370nm |
| 4250479313958 | OH-TR-54-1390-LC | Data Fiber Transceiver CWDM - 1390nm |
| 4250479314153 | OH-TR-54-1410-LC | Data Fiber Transceiver CWDM - 1410nm |
| 4250479314351 | OH-TR-54-1430-LC | Data Fiber Transceiver CWDM - 1430nm |
| 4250479314559 | OH-TR-54-1450-LC | Data Fiber Transceiver CWDM - 1450nm |
| 4250479314757 | OH-TR-54-1470-LC | Data Fiber Transceiver CWDM - 1470nm |
| 4250479314955 | OH-TR-54-1490-LC | Data Fiber Transceiver CWDM - 1490nm |
| 4250479315150 | OH-TR-54-1510-LC | Data Fiber Transceiver CWDM - 1510nm |
| 4250479315358 | OH-TR-54-1530-LC | Data Fiber Transceiver CWDM - 1530nm |
| 4250479315556 | OH-TR-54-1550-LC | Data Fiber Transceiver CWDM - 1550nm |
| 4250479315754 | OH-TR-54-1570-LC | Data Fiber Transceiver CWDM - 1570nm |
| 4250479315952 | OH-TR-54-1590-LC | Data Fiber Transceiver CWDM - 1590nm |
| 4250479316157 | OH-TR-54-1610-LC | Data Fiber Transceiver CWDM - 1610nm |

\*\* Distance is an approximation. Actual distances achieved can be longer or shorter depending on the type of fiber cable and accumulated optical losses in the fiber link. Determine link losses and perform optical budget calculations to ensure correct operation.



Shown with dust cap fitted

### TX Specifications

| Parameter              | Min                      | Typ       | Max                      |
|------------------------|--------------------------|-----------|--------------------------|
| Wavelength             | $\lambda - 6.5\text{nm}$ | $\lambda$ | $\lambda + 6.5\text{nm}$ |
| Optical Power          | -5 dBm                   | -         | 0 dBm                    |
| Spectral width (-20dB) | -                        | -         | 1nm                      |
| Extinction ratio       | 9.0                      | -         | -                        |
| Data rate              | -                        | 1.25 Gbps | -                        |

$\lambda=1270/1290/1310/1330/1350/1370/1390/1410/1430/1450/1470/1490/1510/1530/1550/1570/1590/1610\text{nm}$

### RX Specifications

| Parameter                  | Min     | Typ | Max     |
|----------------------------|---------|-----|---------|
| Sensitivity                | -23 dBm | -   | -       |
| Wavelength                 | 1260nm  | -   | 1620nm  |
| Overload                   | -       | -   | -3 dBm  |
| Loss of Signal Asserted    | -35 dBm | -   | -       |
| Loss of Signal De-Asserted | -       | -   | -24 dBm |
| Optical Hysteresis         | 1 dB    | -   | 4 dB    |

### Mechanical

| Parameter                            |                          |
|--------------------------------------|--------------------------|
| Size (not including connector - typ) | 57mm x 13.4mm x 12.4mm   |
| Weight                               | 50g                      |
| SFP Connector pinning                | MSA                      |
| Fiber connections                    | LC / Duplex - Singlemode |
| Operating Temperature Range          | 5°C - 40°C               |
| Power Supply Voltage                 | 3.3VDC                   |
| Power Consumption                    | 300mA                    |
| Humidity (non condensing)            | 90%                      |

### WARNING

This SFP module is a Class 1 laser device which complies to IEC825 and FDA 21 CFR 1040.10 and 1040.11. The device must be operated within specified temperature and voltage limits. The optical ports of the module must always be terminated with an optical connector or a dust plug (dust plug supplied)

Country of manufacture: China

Rev 1.1 Specifications subject to change

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