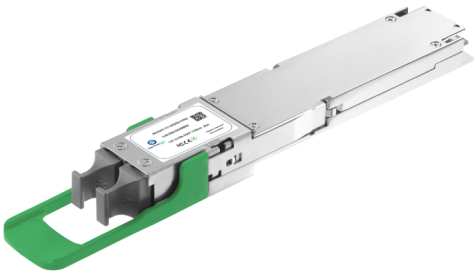
# Optical Transceiver



## 1.6T 2*FR4 2KM OSFP-RHS

### General Description

The 1.6T-2FR4 2km OSFP-RHS transceiver features OSFP1600 form factor, supports 8×200G Ethernet with and 1.6Tb/s aggregate bit rate, integrates EML lasers and PIN receivers, offers 2×800GBASE-FR4 optical and 2×800GAUI-4 electrical interfaces, supports up to 2km transmission, is CMIS 5.3 compliant, and provides digital diagnostics—ideal for high-speed data center interconnects.

### OSFP Serial Optical Interface

- 2x800GBASE-FR4BASE-FR4 optical interface
- 2x800GAUI-4 C2M electrical interface
- Two wire serial Interface with digital diagnostic monitoring

### OSFP MSA Compliant

- Hot-pluggable OSFP1600 form factor
- Compliant with OSFP MSA Specification Rev 5.1 type 2 housing with Dual LC/UPC receptacle
- Compliant with CMIS Rev 5.3

### Standards and Low Power Consumption

- Compliant with IEEE802.3dj D1p3
- Less than 30W in temperature range of 0 to 70℃

# Optical Transceiver

## Technical Data

| | | | |
|---|---|---|---|
| **Model** | 1.6T-2FR4 2km OSFP-RHS | **Transmission rate** | 1.6 Tb/s (8×200G) |
| **Package Type** | OSFP 1600 | **Transmission distance** | Up to 2 km |
| **Wavelength** | 1264.5 - 1277.5nm<br>1284.5 - 1297.5nm<br>1304.5 - 1317.5nm<br>1324.5 - 1337.5nm | **Fiber type** | Single Mode Fiber (SMF) |
| **Connector** | Dual LC / UPC | **Receiver type** | PIN |
| **Transmitter type** | EML | **Commercial Temperature** | 0~70 ℃ |
| **Data diagnosis** | Yes | **Receiver sensitivity** | Min. -3.7dBm (OMAouter) |
| **Transmitted optical power** | -2.2 to 4.9 dBm per lane, total ≤ 10.9 dBm | **Receive overload** | Max. 4.9dBm per lane |
| **Power Supply Voltage** | 3.135 - 3.465V | **Extinction Ratio** | ≥ 3.5 dB |
| **Power Consumption** | ≤ 30 W (normal)<br>≤ 2 W (low power mode) | **Packaging scheme** | OSFP MSA Rev 5.1 Type 2 |
| **Modulation** | PAM4 | **FEC function** | Yes |
| **Application** | Ethernet | **Warranty** | 3 Years |
| **Protocol** | IEEE 802.3dj D1p3 compliant (host-based FEC) | **Brand** | Hermesys |

## Order Information

| PART NUMBER | DESCRIPTION |
|---|---|
| OSFP-21A6020H1D-RH | OSFP SM 1.6T 2KM FR4 DUPLEX LC RHS |