# 800Gb/s QSFP-DD Transceivers

## DESIGNED FOR USE IN 800GB/S DATA RATE LINKS. COMPLIANT WITH QSFP-DD MSA, IEEE802.3, OIF-CMIS

Amphenol's 800G QSFP-DD optical modules include 2xFR4(plus), 2xLR4, AOC, and AOC break-out series, which adopt LC or MPO optical ports and are compatible with IEEE802.3, OIF-CMIS, and other standards. It is mainly used in 800G Ethernet applications and other environments.

- Support 106.25 Gbps data rate per channel
- Digital Diagnostics Monitoring Interface
- Electrically hot-pluggable
- Compliant with QSFP-DD MSA and RoHS
- Complaint with RoHS



**TARGET MARKETS**



## FEATURES & BENEFITS

- Hot-pluggable QSFP-DD form factor

- Single 3.3V power supply

- Dual duplex MPO-12 or LC optical receptacle

- Up to 106.25Gb/s data rate per channel

- Digital Diagnostics Monitoring Interface

- RoHS compliant

- Compliant with OIF-CMIS

- Compliant with IEEE 802.3

# TECHNICAL INFORMATION

### ELECTRICAL PERFORMANCE

▪ SFF–8679

### ▪ MECHANICAL PERFORMANCE

▪ QSFP–DD MSA

### SPECIFICATIONS

▪ IEEE 802.3cu

▪ IEEE 802.3ck

### ▪ ENVIRONMENTAL

▪ Case Operating Temperature Range: 0°C to 70°C

### APPROVALS & CERTIFICATION

▪ UL, TUV

### PACKAGING

▪ QSFP–DD

### TARGET MARKETS/APPLICATIONS

 Data Center

# PART NUMBERS

| Description | Part Numbers |
|---|---|
| 800G QSFP–DD 2*FR4 2km Transceiver with DDM  (C–temp) | QD27PD8–02D |
| 800G QSFP–DD 2*LR4 10km Transceiver with DDM (C–temp) | QD27PD8–10D |

Find part number details using the search box on www.amphenol–cs.com

# KEY PARAMETER SPECIFICATIONS

| Product Name | Part Number | Package | Interface | Reach | Fiber Type | Wavelength | Rate | Tx Output (dBm) | Rx Input (dBm) | Power Consumption | Temp (°C) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 800G QSFP–DD 2*FR4 | QD–27PD8–02D | QSFP–DD | LC | 2km | SMF | 1271nm/1291nm/1311nm/1331nm | 800G | –3.2~4.4 | –7.2~4.4 | 14.5W | 0~70 |
| 800G QSFP–DD 2*LR4 | QD–27PD8–10D | QSFP–DD | LC | 10km | SMF | 1271nm/1291nm/1311nm/1331nm | 800G | –2.7~5.1 | –9~5.1 | 14.5W | 0~70 |