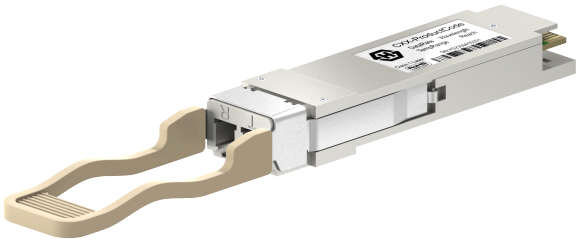
DATA SHEET

# Transceivers
# **40G QSFP+ Bidi SR**
# CQM-810A07

## Properties

- Includes 2x 20G Bidi transmission
- Multi-protocol support
- Data rate 39.6 Gbps to 45.2 Gbps
- Reach up to 150m
- Wavelengths 850/900nm
- LC/PC duplex connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 7 dB



| **General data** | |
|---|---|
| Form factor | QSFP+ |
| Product image | Actual product may differ from the images shown. Colours, design, and details can vary. |
| Protocol | 40G Ethernet |
| Media type | Multimode |
| Connector | LC/PC duplex |
| Modulation Format | NRZ |
| Built-in FEC | No |
| CDR | none |
| Operation temperature | 0 °C ... 70 °C |
| Supply voltage typical | 3.13 V ... 3.47 V |
| Power consumption | < 3.5 W |
| Digital Diagnostic Management (DDM) | Yes |
| Laser hazard level | 1M |

| **Absolute Maximum Ratings** | |
|---|---|
| Max. supply voltage range | -0.5 V ... 4 V |
| Max. Storage Temperature Range | -40 °C ... 85 °C |
| Max. relative humidity range | 5 % ... 85 % |

| **Transmitter Specifications** | |
|---|---|
| Laser Type | VCSEL |
| Operating channels | 850nm (832...868nm)<br>900nm (882...918nm) |
| Grid | None |
| Average launch power per lane | -4 dBm ... 5 dBm |

Transceivers

# 40G QSFP+ Bidi SR

CQM-810A07

| Transmitter Specifications | |
|---|---|
| Extinction Ratio | < 3.5 dB |
| Side Mode Suppression | > 30 dB |
| Supported Data rate | 39.8 Gbps ... 45.2 Gbps |

| Receiver Specifications | |
|---|---|
| Receiver Type | PIN |
| Operating channels | 900nm (882...918nm) |
| | 850nm (832...868nm) |
| Receiver Overload | > 0.5 dBm |
| Receiver Sensitivity | < -11 dBm |
| Bit Error Rate at Receiver | 1E-12 |
| Receiver LOS De-Assert | < -14 dBm |
| Receiver LOS Assert | > -30 dBm |
| Receiver LOS Hysteresis | > 0.5 dB |
| Supported Data rate | 39.8 Gbps ... 45.2 Gbps |

| Ordering Information Table | | |
|---|---|---|
| Order Code | Compatibility code explanation | Wavelength code explanation |
| CQM-810A07xxxx-85 | “xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type. | -85: 850nm |

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