

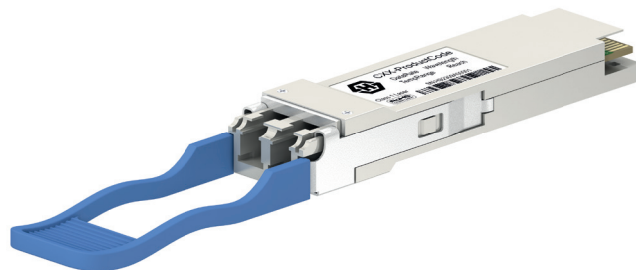
# QSFP28 100G CWDM4 TRANSCEIVER

## QCS-901A05 DUPLEX TRANSCEIVER

## PRODUCT OVERVIEW

### Properties

- Protocol 100G Ethernet
- Data rate 103.125 Gbps
- Reach up to 2km
- Wavelengths 1271/1291/1311/1331nm
- LC/PC duplex adapter
- Singlemode fibre
- Temperature Range 0 ... 70°C
- Link budget at least 5 dB



### General Data

|                                     |                   |
|-------------------------------------|-------------------|
| Form Factor                         | QSFP28            |
| Data Rate Standards                 | 100GBASE-CWDM4    |
| Protocol                            | 100G Ethernet     |
| Media Type                          | SMF28             |
| Supply Current                      | < 1060 mA         |
| Adapter                             | LC/PC Duplex      |
| CDR                                 | Double            |
| Operation Temperature               | 0°C ... 70°C      |
| Supply Voltage Typical              | 3.13 V ... 3.47 V |
| Power Consumption                   | < 3.5 W           |
| Digital Diagnostic Management (DDM) | Built-in          |
| Laser Hazard Level                  | 1                 |

### Absolute Maximum Ratings

|                                   |                |
|-----------------------------------|----------------|
| Maximum Supply Voltage Range      | -0.3 V ... 4 V |
| Maximum Storage Temperature Range | -40°C ... 85°C |
| Max. Relative Humidity Range      | 5 % ... 95 %   |



### Transmitter Specifications

|                               |                                |
|-------------------------------|--------------------------------|
| Laser Type                    | DML                            |
| Operating Channels            | 1271.00nm (1264.5 to 1277.5nm) |
|                               | 1291.00nm (1284.5 to 1297.5nm) |
|                               | 1311.00nm (1304.5 to 1317.5nm) |
|                               | 1331.00nm (1324.5 to 1337.5nm) |
| Grid                          | None                           |
| Average Launch Power Per Lane | -6.5 dBm ... 2.5 dBm           |
| Total Optical Output Power    | < 8.5 dBm                      |
| Extinction Ratio              | > 3.5 dB                       |
| Side Mode Suppression         | > -30 dB                       |
| Supported Data Rate           | 103.125 GB/s                   |

### Receiver Specifications

|                         |                                |
|-------------------------|--------------------------------|
| Receiver Type           | PIN                            |
| Operating Channels      | 1271.00nm (1264.5 to 1277.5nm) |
|                         | 1291.00nm (1284.5 to 1297.5nm) |
|                         | 1311.00nm (1304.5 to 1317.5nm) |
|                         | 1331.00nm (1324.5 to 1337.5nm) |
| Receiver Overload       | > 2.5 dBm                      |
| Receiver Sensitivity    | < 10 dBm                       |
| Receiver LOS Hysteresis | > 0.5 dB                       |
| Supported Data Rate     | 103.125 GB/s                   |

### Ordering Information

| Part Code         | Compatibility Code Explanation                                                                                                                     | Wavelength Code Explanation |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| CQS-901A05xxxx-13 | "xxxx" is an alphanumeric string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type. | -13: 1310nm                 |

Ver: EDPHSCQS901A050224.1

**Tel: 01376 510337 - E-mail: [sales@edpeurope.com](mailto:sales@edpeurope.com)**