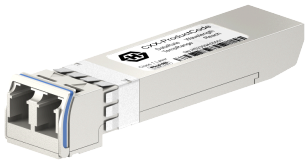
DATA SHEET

# Transceivers
# **25G SFP28 LR**
# CSS-400A06

## Properties

- Multi-protocol support
- Data rate 24.33...25.78 Gbps
- Reach up to 10km
- Wavelength 1310nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 6 dB



| General data | |
|---|---|
| Form factor | SFP28 |
| Product image | Actual product may differ from the images shown. Colours, design, and details can vary. |
| Protocol | 25G Ethernet, eCPRI, CPRI 10 |
| Data rate standards | 25GBASE-LR<br>25G eCPRI<br>CPRI Option 10 |
| Media type | Singlemode |
| Connector | LC/PC duplex |
| Modulation Format | NRZ |
| Built-in FEC | No |
| CDR | Double |
| Operation temperature | 0 °C ... 70 °C |
| Supply voltage typical | 3.13 V ... 3.47 V |
| Supply Current | < 300 mA |
| Power consumption | < 1.2 W |
| Digital Diagnostic Management (DDM) | Yes |
| Laser hazard level | 1 |

| Absolute Maximum Ratings | |
|---|---|
| Max. supply voltage range | -0.3 V ... 4 V |
| Max. Storage Temperature Range | -40 °C ... 85 °C |
| Max. relative humidity range | 5 % ... 95 % |

| Transmitter Specifications | |
|---|---|
| Laser Type | Uncooled DFB |
| Operating Wavelength Range | 1260 nm ... 1355nm |
| Grid | None |
| Average launch power per lane | -5 dBm ... 2 dBm |

Transceivers

# 25G SFP28 LR

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| Transmitter Specifications | |
|---|---|
| Side Mode Suppression | > 30 dB |
| Supported Data rate | 24.33 Gbps ... 25.78 Gbps |

| Receiver Specifications | |
|---|---|
| Receiver Type | PIN |
| Operating Wavelength Range | 1260 nm ... 1620nm |
| Receiver Overload | > 2 dBm |
| Receiver Sensitivity | < -10.6 dBm |
| Bit Error Rate at Receiver | 5E-5 |
| Maximum Optical Input Power per Lane (Overload) | 3 dBm |
| Receiver LOS De-Assert | < -13 dBm |
| Receiver LOS Assert | > -30 dBm |
| Receiver LOS Hysteresis | > 0.5 |
| Supported Data rate | 24.33 Gbps ... 25.78 Gbps |

| Ordering Information Table | | |
|---|---|---|
| Order Code | Compatibility code explanation | Wavelength code explanation |
| CSS-400A06xxxx-13 | “xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type. | -13: 1310nm |

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