DATA SHEET

Transceivers
# 10G SFP+ CWDM ER
CSS-852A14

## Properties

- Multi-protocol support
- Data rate up to 11.3 Gbps
- Reach up to 40km
- Any ITU CWDM channel between 1471nm and 1611nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 15 dB (w/o dispersion penalty)



| General data | |
|---|---|
| Form factor | SFP+ |
| Product image | Actual product may differ from the images shown. Colours, design, and details can vary. |
| Protocol | 1/10G Ethernet, 1/2/4/8/10G FC, STM-64/OC-48, CPRI Option 2...8, OBSAI |
| Data rate standards | 10GBASE-ER/EW |
| | CPRI Option 2 to 8 |
| Media type | Singlemode |
| 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 |
| Supply Current | < 450 mA |
| Power consumption | 1.3 W |
| Digital Diagnostic Management (DDM) | Yes |
| Laser hazard level | 1 |

| 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 % ... 95 % |

Transceivers

# 10G SFP+ CWDM ER

CSS-852A14

| Transmitter Specifications | |
|---|---|
| Laser Type | EML |
| Grid | CWDM 20nm |
| Available Wavelength in nm | Any ITU CWDM channel between 1471nm and 1611nm |
| Average launch power per lane | -1 dBm ... 3 dBm |
| Dispersion Penalty | < 2 dB |
| Dispersion range | -400 ps/nm ... 800ps/nm |
| Extinction Ratio | > 8.2 dB |
| Side Mode Suppression | > 30 dB |
| Supported Data rate | 1.0625 Gbps ... 11.3 Gbps |

| Receiver Specifications | |
|---|---|
| Receiver Type | PIN |
| Operating Wavelength Range | 1260 nm ... 1620nm |
| Receiver Overload | > 0 dBm |
| Receiver Sensitivity | < -16 dBm |
| Bit Error Rate at Receiver | 1E-12 |
| Receiver LOS De-Assert | < -17 dBm |
| Receiver LOS Assert | > -30 dBm |
| Receiver LOS Hysteresis | > 0.5 dB |
| Supported Data rate | 1.0625 Gbps ... 11.3 Gbps |

| Ordering Information Table | | |
|---|---|---|
| Order Code | Compatibility code explanation | Wavelength code explanation |
| CSS-844A15xxxx-ww | “xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type. | -ww: CWDM channel chosen from table at the end |

| Channel Allocation | | | |
|---|---|---|---|
| Code | Wavelength (nm) | Code | Wavelength (nm) |
| -47 | 1471 | -55 | 1551 |
| -49 | 1491 | -57 | 1571 |
| -51 | 1511 | -59 | 1591 |
| -53 | 1531 | -61 | 1611 |

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P28467 / Date of publication: 27.10.2026 / uncontrolled copy