DATA SHEET

Transceivers
# 1G SFP Bidi EX
CSB-315A18

## Properties

- Multi-protocol support
- Data rate 125 Mbps and 1.0625...1.25 Gbps
- Reach up to 40km
- Wavelength Tx 1310/Rx 1550nm
- LC/PC simplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 18 dB
- Power consumption < 1 W



| General data | |
|---|---|
| Form factor | SFP |
| Product image | Actual product may differ from the images shown. Colours, design, and details can vary. |
| Protocol | 1G Ethernet, 1G Fiber Channel, CPRI 2 |
| Data rate standards | 1000BASE-EX |
| | CPRI Option 2 |
| Media type | Singlemode |
| Connector | LC/PC simplex |
| 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 | < 300 mA |
| Power consumption | < 1 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 % |



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| Transmitter Specifications | |
|---|---|
| Laser Type | Uncooled DFB |
| Operating Wavelength Range | 1260 nm ... 1360nm |
| Grid | None |
| Average launch power per lane | -5 dBm ... 0 dBm |
| Extinction Ratio | < 9 dB |
| Side Mode Suppression | > 30 dB |
| Supported Data rate | 125 Mbps / 1.0625 Gbps ... 1.25 Gbps |

| Receiver Specifications | |
|---|---|
| Receiver Type | PIN |
| Operating Wavelength Range | 1530 nm ... 1570nm |
| Receiver Overload | > -1 dBm |
| Receiver Sensitivity | < -24 dBm |
| Bit Error Rate at Receiver | 1E-12 |
| Receiver LOS De-Assert | < -25 dBm |
| Receiver LOS Assert | > -38 dBm |
| Receiver LOS Hysteresis | > 0.5 dB |
| Supported Data rate | 125 Mbps / 1.0625 Gbps ... 1.25 Gbps |
| Maximum Receiver Power (Damage Threshold) | > 5 dBm |

| Ordering Information Table | | |
|---|---|---|
| Order Code | Compatibility code explanation | Wavelength code explanation |
| CSB-315A18xxxx-35 | “xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type. | -35: 1310nm Laser / 1550nm Receiver |

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