

DATA SHEET

SFP28 25G SR, 850NM MMF TRANSCEIVER EXTENDED TEMPERATURE

DESCRIPTION

This transceiver is an 850 nm VCSEL 25Gigabit SFP28 module. It is support up to 70m on OM3 MMF and 100m on OM4 MMF. The transceiver has a duplex LC optical interface and all mechanical characteristics are compliant with the current SFP+ specification (SFF-8431 and SFF-8432).



KEY FEATURES

Compatible with CPRI option10 24.33Gbps and 25GBASE 25.78Gbps

Operating data rate up to 28.05Gbps

100m transmission over OM4 MMF

70m transmission over OM3 MMF

850nm VCSEL laser and PIN photo-detector

Internal CDR on both Transmitter and Receiver channel

Maximum power dissipation<1W

SFP28 MSA compliant

Built-in digital diagnostic functions

Single +3.3V power supply

Operating case temperature: -40 to +85 °C

RoHS 6 Compliant

Duplex LC Connector Interface, Hot Pluggable

APPLICATIONS

25GbE

CPRI

COMPLIANCES

Compliant to SFF-8402, SFF-8432.

Compliant to IEEE802.3.

DDM Compliant with SFF-8472 SFP+ MSA.

RoHS Compliant6

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ENVIRONMENTAL SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Unit |
|-----------------------|------|-------|------|------|
| Operation Temperature | -40 | | +85 | °C |
| Storage Temperature | -40 | ----- | +85 | °C |
| Operation Humidity* | 5 | ----- | 85 | % |
| Storage Humidity | 5 | ----- | 85 | % |

(*) not condensing

OPERATING SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Unit |
|-----------------------|------|------|------|------|
| Supply Voltage | 3.1 | +3.3 | +3.5 | V |
| Power Dissipation | | | 1 | W |
| Transmission Distance | | | 100 | m |

OPTICAL SPECIFICATIONS

TRANSMITTER

| Parameter | Min. | Typ. | Max. | Unit |
|-----------------------|------|------|------|------|
| Wavelength | 840 | 850 | 860 | nm |
| Average Launch Power | -4.5 | | 2.5 | dBm |
| Extinction Ratio (ER) | 2 | | | dB |

RECEIVER

| Parameter | Min. | Typ. | Max. | Unit |
|----------------------|------|------|------|------|
| Input Wavelength | 840 | 850 | 860 | nm |
| Receiver Sensitivity | | | -6 | dBm |
| LOSA | -30 | | | dBm |
| LOSD | | | -11 | dBm |
| Hysteresis | 0.5 | | | dB |



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ORDERING INFORMATION

| Jabil Part Number | Package | Rate | Reach | Other info |
|-------------------|---------|------|-------|------------|
| JPS825S1LCE000L85 | SFP28 | 25G | 100m | DDM/RoHS |

CONTACT INFORMATION

For additional information and evaluation samples order, please contact:

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