SFP+ 10GBASE-ER/EW / S-64.2, 1550nm SMF 40km Transceiver

Features

- Maximum link length of 40km
- Hot-pluggable SFP+ footprint
- Supports 9.5 to 10.3Gb/s bit rates
- Power dissipation < 1.5W
- Single 3.3V power supply
- 1550nm EML transmitter, PIN photo-detector
- Duplex LC connector
- Built-in digital diagnostic functions
- Case temperature range ：-5°C to 70°C

Applications

- 10GBASE-ER/EW 10G Ethernet

Compliances

- Compliant with SFF-8472 SFP+ MSA.
- Compliant to SFP+ SFF-8431 and SFF-8432.
- Compliant to 802.3ae 10GBASE-ER.
- RoHS Compliant6

Description

The transceiver is designed for use in 10-Gigabit Ethernet links up to 40km over single mode fiber. The module consists of 1550 EML Laser, InGaAs PIN and Preamplifier in a high-integrated optical sub-assembly. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF8472. The module data link up to 40km in 9/125um single mode fiber.

Environmental Specifications

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	-5		+70	℃
Storage Temperature	-40	------	+85	℃
Operation Humidity*	5	------	85	%
Storage Humidity	5	------	85	%

(*) not condensing

Operating Specifications

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.14	+3.3	+3.46	V
Power Dissipation			2.4	W
Transmission Distance			40	Km

Optical Specifications

Transmitter:

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1530	1550	1565	nm
Average Launch Power (each lane)	-2		4	dBm
Extinction Ratio (ER)	6			dB
Spectrum Band Width (RMS)			1	Nm
SMSR	30			dB
Transmitter OFF Output Power			-40	dBm
Optical Rise/Fall Time		100	260	Ps
Transmitter and Dispersion Penalty			3	dB
Output Eye Mask	Compliant with IEEE 0802.3ae			

Receiver:

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1270		1610	nm
Receiver Sensitivity			-15	dBm
Input Saturation Power (Overload)	0.5			Psat
LOSA	-28			dBm
LOSD			-19	dBm
Hysteresis	0.5			dB

Ordering information

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10ERLCC000L15	SFP+	10G	40 Km	DDM/RoHS

Contact information

For additional information and evaluation samples order, please contact:
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