SFP+ 10GBASE-LR/LW / I-64.1 / 10G FC, 1310nm SMF 10km Transceiver

Features

- 1310nm DFB and PIN receiver
- LVTTL (open collector) digital diagnostic monitoring signals
- Compliant with specifications for IEEE-802.3ae 10Gigabit Ethernet at 10.3Gbps and 10G Fiber Channel at 10.52Gbps
- Conforms to 10Gbps SFP+ Multi-Source Agreement
- Class 1 Laser Safety Conformance
- Compatible with industry standard SFP electrical connector & cage
- Industry standard duplex LC optical connector
- Operates with 9/125 µm signal-mode optical fibers
- Case temperature range ：0°C to 70°C

Applications

- 10G Ethernet at 10.3125Gbps for up to 10km reach
- 10G Fiber channel at 10.5187Gbps
- OC192 over FEC at 10.709Gbps
- SDH STM-64/SONET OC192 at 9.953Gbps

Compliances

- Compliant with SFF-8472 SFP+ MSA.
- Compliant to SFP+ SFF-8431 and SFF-8432.
- RoHS Compliant6

Description

The transceiver is hot pluggable duplex-LC optical transceiver designed for using in 10Gbps serial applications such as SONET OC192/SDH STM64, 10Gigabit Ethernet and 10Gbps Fiber Channel applications. It operates with single +3.3V power supplies. The transceiver conforms to the 10Gbps SFP+ multi-source agreement (MSA).

The transceiver consists of optical subassemblies (OSA) for both transmitter and the receiver, and an electrical subassembly, which is packaged together in a metal enclosure. The TOSA is a high- performance 1310nm DFB with isolator, and the ROSA is high speed PIN type detector with a built-in preamplifier.

Environmental Specifications

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	0		+70	℃
Storage Temperature	-40	------	+85	℃
Operation Humidity*	5	------	85	%
Storage Humidity	5	------	85	%

(*) not condensing

Operating Specifications

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.1	+3.3	+3.5	V
Power Dissipation		2.4		W
Transmission Distance			10	Km

Optical Specifications

Transmitter:

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1270	1310	1355	nm
Average Launch Power	-8.2	-	0.5	dBm
Extinction Ratio (ER)	3.5			dB
SMSR	30			dB
Bandwidth@-20dB			1	nm

Receiver:

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1100		1600	nm
Receiver Sensitivity			-12.6	dBm
Input Saturation Power (Overload)	0			dBm
LOSA	-25			dBm
Hysteresis	0.5		5	dB

Ordering information

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10LRLCC000L13	SFP+	10G	10Km	DDM/RoHS

Contact information

For additional information and evaluation samples order, please contact:

Chuck Sinha, Sr. Director of Sales
Jabil Photonics
5960 Inglewood Dr. Suite 100, Pleasanton, CA
Mobile: 408-505-0955
Email: Chuck_Sinha@Jabil.com