

Part Number: SFP-1000Base-BXU-10
SFP-1000Base-BXU-10-IND

Quick Spec:

Form Factor: SFP-BIDI
TX Wavelength: 1310nm
Reach: 10km
Cable Type: SMF
Rate Category: 1000Base
Interface Type: BX
DDM: Yes
Connector Type: Single-LC



Features

- Up to 1.25Gb/s Data Links
- Hot-Pluggable Capability
- Single +3.3V Power Supply
- Isolation > 30dB, Cross Talk < -45dB
- Compliant with Specifications for IEEE802.3Z
- Compliant with Bellcore TA-NWT-000983
- Eye Safety Designed to Meet Laser Class1.
- Compliant with IEC60825-1
- RoHS compliance
- Operating Case Temperature
 - Standard 0 to +70 °C
 - Industrial -40 to +85 °C

Applications

- Gigabit Ethernet
- Fiber Channel
- WDM Application

Specification

Electrical and Optical Characteristics: (Condition: T_a=T_{OP})

Parameter	Symbol	Min.	Typical	Max.	Unit
Transmitter Differential Input Volt	+/-TX_DAT	200		2400	mV p-p
Supply Current	I _{CC}		130	180	mA
TX Disable Input Voltage – Low	V _{IL}	0		0.8	V
TX Disable Input Voltage – High	V _{IH}	2.0		V _{CC}	V
TX Fault Output Voltage – Low	V _{OL}	0		0.8	V
TX Fault Output Voltage – High	V _{OH}	2.0		V _{CC}	V
Receiver Differential Output Volt	+/-RX_DAT	600		1400	mV p-p
Rx LOS Output Voltage- Low	V _{OL}	0		0.8	V
Rx LOS Output Voltage- High	V _{OH}	2.0		V _{CC}	V

Transmitter Section

Parameter	Symbol	Min.	Typical	Max.	Unit
Data Rate	B	-	1250	-	Mb/s
Centre Wavelength-U	λ_c	1260	1310	1360	nm
Output Spectral Width	$\Delta\lambda(-20dB)$	-	-	1	nm
Average Output Power	P_o	-8	-	-3	dBm
Extinction Ratio	EXT	9	-	-	dB
Data Input Voltage-High	V_{IHS}	$V_{CC}-1.16$	-	$V_{CC}-0.89$	V
Data Input Voltage -Low	V_{ILS}	$V_{CC}-1.82$	-	$V_{CC}-1.48$	V
Supply Current	I_{CC}	-	90	150	mA
Output Optical Eye	Compliant with IEEE802.3Z				

Receiver Section

Parameter	Symbol	Min.	Typical	Max.	Unit
Receive Sensitivity	P_{min}	-	-	-22	dBm
Maximum Input Power	P_{MAX}	-3	-	-	dBm
Signal Detect Threshold-Assertion:	SD_{HIGH}	-	-	-22	dBm
Signal Detect Threshold-Deassertion:	SD_{LOW}	-32	-	-	dBm
Hysteresis	-	-	3.0	-	dBm
Output High Voltage	V_{OH}	$V_{CC}-1.03$	-	$V_{CC}-0.89$	V
Output Low Voltage	V_{OL}	$V_{CC}-1.82$	-	$V_{CC}-1.63$	V
Operating Wavelength-U	λ_c	1485	1490	1496	nm
Supply Current	I_{CC}	-	80	110	mA

Absolute Maximum Ratings:

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T_{ST}	-40	+85	°C
Operating Temperature (Standard)	T_{IP}	0	+70	°C
Operating Temperature (Industrial)	T_{IP}	-40	+85	°C
Input Voltage	T_{CC}	0	+5	V

Recommended Operating Environment:

Parameter	Symbol	Min.	Typical	Max.	Unit
Supply Voltage	V_{CC}	+3.1	+3.3	+3.5	V
Operating Temperature	T_{OP}	0	-	+70	°C