

0-10Mb/S TTL SINGLE MODE BI-DIRECTIONAL SINGLE FIBER TRANSCEIVER

Feature:

- Single Fiber Bi-Directional SM optical Transceiver
- Transmitter section Selects 1310nmFP \1550mFP LD or 1490nm DFB\1550nm DFB
- Standard+3.3V /+5V Power Supply
- SC/FC/ST or pigtail optical interface
- Standard TTL data output with signal detect indication, compatible with CMOS level
- Standard 1×9 package

Application:

- Applied to RS232、RS485 optical-electrical converter for electric power control and industrial control with bit rate up to 10Mbps.

Parameter

Parameter	Condition	Min	Typ	Max
Wavelength (nm)	1310nm	1270	1310	1360
	1550nm	1530	1550	1570
Power Supply (V)	Vcc	3.135	3.3	3.465
		4.75	5	5.25
Signal Level	TTL		0~4.0	
	LVTTTL		0~3.0	
Extinction Ratio (dB)	EX	10		
Current of transmitter section (mA)	Vcc=5V			15
	Vcc=3.3V			15
Current of receiver section (mA)	Vcc=5V			2
	Vcc=3.3V			2

Data Rate, LD , Wavelength and Mode, Po , Sen, Reach

Data rate	LD	Wavelength and Mode	P0 (dBm)	Sensitivity (dBm)	Reach
500Kb/s	1310nm FP	SM 1310nm	≥-8	≤-20	20km
	1550nm FP	SM 1550nm	≥-10		
1Mb/s	1310nm FP	SM 1310nm	≥-8	≤-20	20km
	1550nm FP	SM 1550nm	≥-10		
10Mb/s	1310nm FP	SM 1310nm	≥-8	≤-18	20km
	1550nm FP	SM 1550nm	≥-8		
	1550nm FP	SM 1550nm	≥-8		

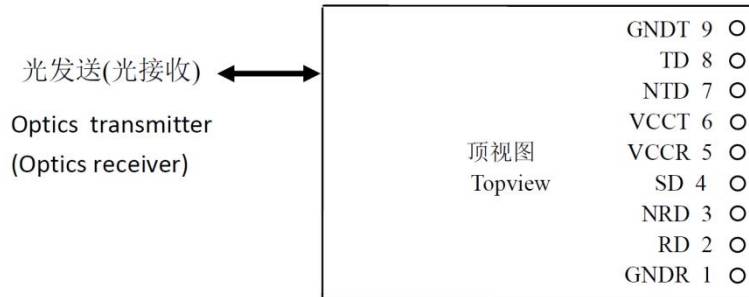
Absolute Maximum Ratings

Operating temperature (°C)	0~+70 Commercial level	Lead soldering temperature (°C)	<260
	-40~+85 Industrial level		
Storage temperature (°C)	-40~+85	Soldering duration (Sec)	<10

Pin Definitions

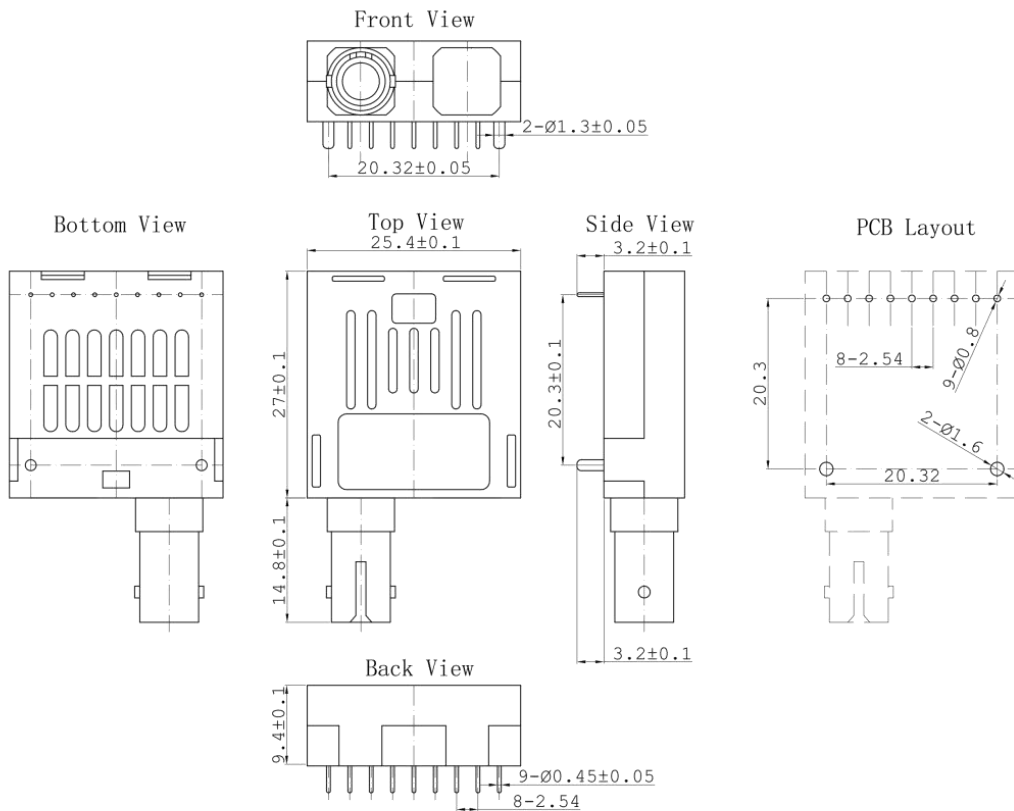
Pin	Name	Level	Description
1	GNDR		Signal ground for Receiver
2	RD	TTL/LVTTL	Data output of receiver section
3	NC		No connect
4	SD	TTL/LVTTL	Signal Detect
5	VccR		Power supply for receiver
6	VccT		Power supply for transmitter
7	NC		No connect
8	TD	TTL/LVTTL	Data input of transmitter section
9	GNDT		Signal ground for Transmitter

Topview

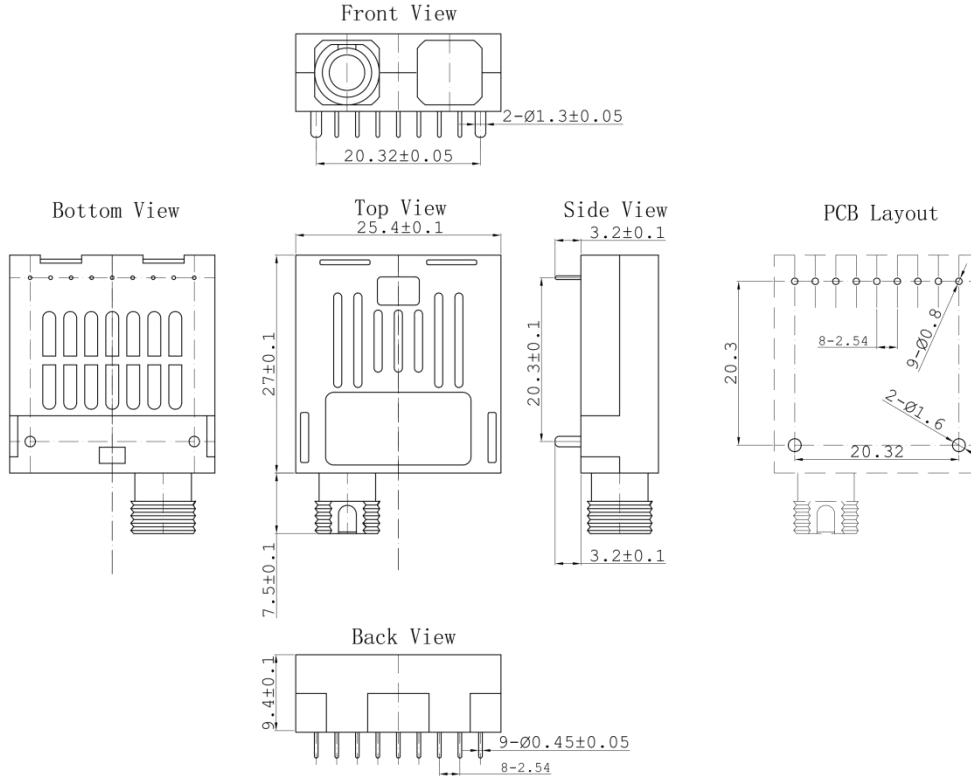


Dimension and optical interface

BIDI ST optical interface on the edge:



BIDI FC optical interface on the edge



BIDI SC optical interface on the edge

