

SFP100B3-MM / SFP100B3-MM-I

100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1310nm / RX1550nm

Highlights

- Compliant with Fast Ethernet Standard
- Compliant with IEEE802.3ah 100Base-BX
- Differential LVPECL inputs and outputs
- > TTL signal detect indicator
- Single power supply 3.3VDC





Features

- RoHS compliant
- Compliant with Fast Ethernet standard
- Compliant with IEEE802.3ah 100Base-BX
- Industry standard small form pluggable (SFP) package
- Simplex LC connector

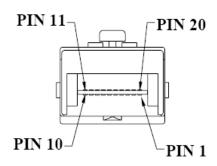
- Differential LVPECL inputs and outputs
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1

Application

- Distributed multi-processing
- Switch to switch interface
- High speed I/O for file server

- Bus extension application
- Channel extender, data storage

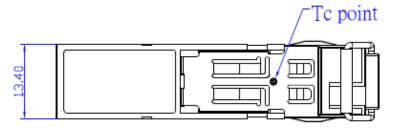
Pin-Assignment

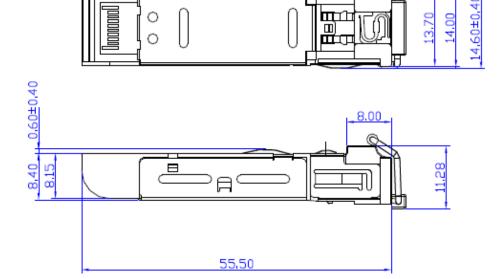


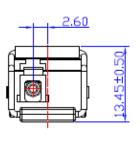
Pin	Signal Name	Description
1	T _{GND}	Transmit Ground
2	TX_FAULT	Transmit Fault
3	TX_DISABLE	Transmit Disable
4	MOD_DEF (2)	SDA Serial Data Signal
5	MOD_DEF (1)	SCL Serial Clock Signal
6	MOD_DEF (0)	TTL Low
7	RATE SELECT	Open Circuit
8	RX_LOS	Receiver Loss of Signal, TTL High, open collector
9	R _{GND}	Receiver Ground
10	R _{GND}	Receiver Ground
11	R _{GND}	Receiver Ground
12	RX-	Receiver Data Bar, Differential PECL, ac coupled
13	RX+	Receiver Data, Differential PECL, ac coupled
14	R _{GND}	Receiver Ground
15	V _{CCR}	Receiver Power Supply
16	V _{CCT}	Tranmitter Power Supply
17	T _{GND}	Transmit Ground
18	TX+	Transmit Data, Differential PCEL, ac coupled
19	TX-	Transmit Data Bar, Differential PCEL, ac coupled
20	T _{GND}	Transmit Ground

Dimension

Unit = mm







Specifications

Parameter	Symbol		Min	Max		Units	
Storage Temperature	Ts		-40	85		°C	
Supply Voltage	Vcc		-0.5	4.0		V	
Input Voltage	VIN		-0.5 -	Vcc 50			
Output Current Operating Current	Io Iop			400		mA mA	
RECOMMENDED OPERA		IS ·	-	400		IIIA	
						Units	
Parameter	Symbol		Min	Max		Offics	
Case Operating	Tc		SFP100B3-MM = 0	SFP100B3-MM		°C	
Temperature			SFP100B3-MM-I = -40	SFP100B3-MM-I = 85		V	
Supply Voltage	Vcc		3.1	3.5			
Supply Current	Itx + Irx		-	200		mA	
TRANSMITTER ELECTR	O-OPTICAL CHAR	ACTERISTICS:	Vcc = 3.1V to 3.5V, Tc=0°	C to 70°C (-40°C to 8	35°C)		
Parameter	Symbol	Min	Тур.	Max	Units	Note	
Output Optical							
Power 9/125,							
62.5/125 μm	Роит	-10	-	0	dBm	Average	
fiber							
Extinction Ratio	ER	8.2	-	-	dB		
Center	λς	1261	1310	1360	nm		
Wavelength	AC .	1201	1510	1300	11111		
Spectral Width	Δλ	_	_	7	nm		
(RMS)	ΔΛ			,			
Rise / Fall Time ,	Tr , <i>f</i>	_	1	2	ns		
(10-90%)	/ 3		-	_			
Max. P _{out}							
TX-DISABLE	P _{OFF}	-	-	-45	dBm		
Asserted							
Output Eye		Compliant with	h Telcordia GR-253-CORE Iss	sue 3 and ITU-T recomn	nendation G-957	1	
Differential Input	VDIFF	0.4	-	2.0	V		
Voltage							
RECEIVER ELECTRO-O	PTICAL CHARACTE	ERISTICS : Vcc	= 3.1V to 3.5V, Tc=0°C to	70°C (-40°C to 85°C))		
Parameter	Symbol	Min	Тур.	Max	Units	Note	
Optical Input	_	_				10	
Power-maximum	Pin	0	-	-	dBm	BER < 10 ⁻¹⁰	
Optical Input							
Power-minimum	P_{IN}	-	-	-28	dBm	BER < 10 ⁻¹⁰	
(Sensitivity)							
Operating Center	λc	1480	_	1600	nm		
Wavelength							
Optical Isolation	ISO	-	-	-40	dB	λ =1480~1600	
oss of Signal-Asserted	P _A	-	-	-28	dBm		
Loss of	P _D	-45	_	-	dBm		
Signal-Deasserted	-						
Differential Output	V_{DIFF}	0.5	-	1.6	V		
Voltage						1	
Data Output Rise, Fall	Tr , f	-	1	2	ns		
Time (10-90%)						-	
Receiver Loss of Signal	RX_LOS _L	0	-	0.5	V		
Output Voltage-Low						1	
Receiver Loss of Signal			i i	V _{CC}	V	1	

Ordering Information

SFP100B3-MM-A

Code Definition	Additional Port Type			
01.	-I: Industrial extended model for -40 ~ 85°C			
Option	* Regular model : 0 ~ 70°C			

	Model Name	Description	Operating Temperature
Available Model	SFP100B3-MM	100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1310nm / RX1550nm,	0 ~ 70°C
	SFP100B3-MM-I	100Mbps SFP optical Transceiver, Multi-mode BIDI / 2KM, TX1310nm / RX1550nm,	-40 ~ 85°C

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1601SC SCN-1338SC SFPPT-SR3-01 HFD8003-500-XBA SCN-1383SC 2333569-1 LNK-ST11HB-R6 FTL4C1QL3L FTL4C1QE3L

FTL4C1QL3C SPTSHP3PMCDF SPTSBP4LLCDF SPTMBP1PMCDF SPTSHP2PMCDF SF-NLNAMB0001 SPTSLP2SLCDF

SPTSQP4LLCDF 1019682 1019683 1019705 HFBR-1415Z AFBR-5803ATQZ AFBR-5803ATZ PLR135/T9 TGW-Q14BB-FCQ AFBR
5803AZ TQS-Q1LH8-XCA03 TQS-Q1LH8-XCA05 TQS-Q1LH8-XCA10 TQS-Q1LH9-2CA HFBR-1414Z HFBR-1527Z HFBR-1528Z

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