SPLC-20-LB Small Form Factor Pluggable (SFP) Electrical Loop Back Tester

ORDERING INFORMATION

SPLC - 20 - LB

SFP Loop Back Tester

Features

- Convenient LED(front) to indicate Power ON
- Die Cast Metal Housing
- Single +3.3V Power Supply
- Serial ID functionality

PRODUCT OVERVIEW

The SPLC-20-LB Small Form factor Pluggable (SFP) loop-back tester module is specifically designed for testing equipments where optical Small From factor transceivers are to be installed. Stratos SFP loopback transmitter inputs receive the signals and loops the signal back to the port driver circuitry via receiver outputs. This allows the host to determine if there are problems with the port that is being tested. The SFP loopback modules are equipped convenient LED which illuminates when power is applied. The LED is located at the front of the loopback module. The loopback modules are also provided with on board EEPROM which will allow the host to test the serial ID functionality. The EEPROM serial ID data fields will be programmed with information shown on page 3. The SPLC-20-LB operates at +3.3V.

MODULE SPECIFICATION - RECOMMENDED OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	NOTES
Supply Voltage	$V_{DD}T$, $V_{DD}R$	3.15	3.3	3.45	VDC	±5%
Baud Rate	BRate			2.488	GBaud	
Current Consumption	Icc			25	mA	-3.15V < Vcc < 3.45V

ELECTRICAL PIN ASSIGNMENT

PIN	NAME	FUNCTION		PIN NO.	NAME	FUNCTION
1	VeeT	Transmitter Ground		20	VeeT	Transmitter Ground
2	TX_FAULT	TX Fault Indication (LOW)		19	TD-	Inverted Data In
3	TX_DISABLE	Transmitter Disable (NC)		18	TD+	Non-inverted Data In
4	MOD_DEF (2)	Module Definition 2		17	VeeT	Transmitter Ground
5	MOD_DEF (1)	Module Definition 1		16	VccT	Transmitter Power
6	MOD_DEF (0)	Module Definition 0		15	VccR	Receiver Power
7	RATE SELECT	Not Connected		14	VeeR	Receiver Ground
8	LOS	Loss of Signal (LOW)		13	RD+	Non-Inverted Received Data out
9	VeeR	Receiver Ground		12	RD-	Inverted Received Data out
10	VeeR	Receiver Ground		11	VeeR	Receiver Ground

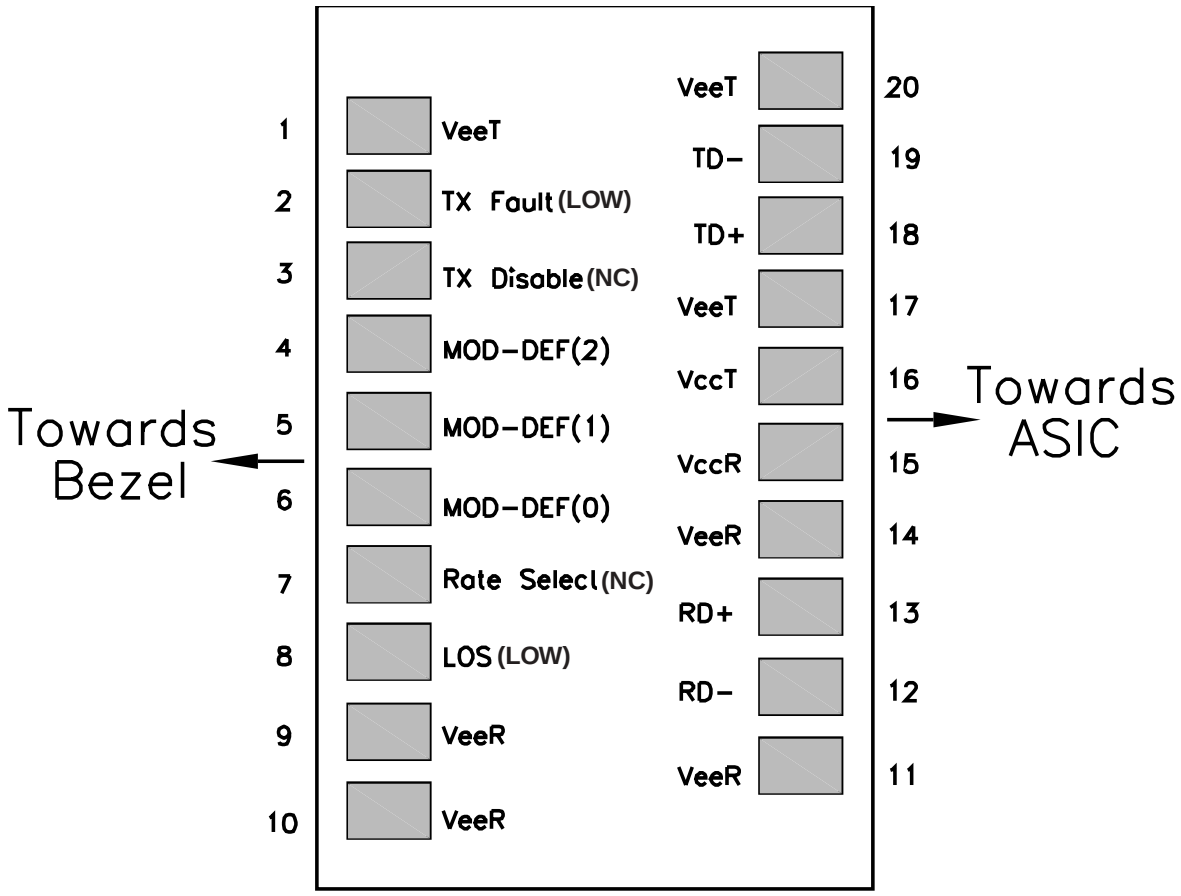

Figure 1. Diagram of Host Board Connector Block Pin Numbers and Names

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Addr.	Description	Contents	Data (Hex)	Addr.	Description	Contents	Data (Hex)
0	Identifier	SFP	03	50	Vendor PN	Space	20
1	Ext. Identifier	MOD_DEF 4	04	51	Vendor PN	Space	20
2	Connector		00	52	Vendor PN	Space	20
3	Reserved		00	53	Vendor PN	Space	20
4	SONET		00	54	Vendor PN	Space	20
5	SONET		00	55	Vendor PN	Space	20
6	GbE		00	56	Part Rev.	0	30
7	Fibre Channel		00	57	Part Rev.	0	30
8	Fibre Channel		00	58	Part Rev.	0	30
9	Fibre Channel		00	59	Part Rev.	0	30
10	FC-Speed		00	60	Reserved		00
11	Encoding		00	61	Reserved		00
12	Bit Rate		00	62	Reserved		00
13	Reserved		00	63	CC_BASE	Check Code(0-62)	55
14	Length		00	64	Options		00
15	Length		00	65	Options		00
16	Length		00	66	BR, max		00
17	Length		00	67	BR, min		00
18	Length		00	68	Vendor SN		30
19	Reserved		00	69	Vendor SN		30
20	SFP Vendor	S	53	70	Vendor SN		30
21	SFP Vendor	t	74	71	Vendor SN		30
22	SFP Vendor	r	72	72	Vendor SN		30
23	SFP Vendor	a	61	73	Vendor SN		30
24	SFP Vendor	t	74	74	Vendor SN		30
25	SFP Vendor	o	6F	75	Vendor SN		30
26	SFP Vendor	s	73	76	Vendor SN		30
27	SFP Vendor	L	4C	77	Vendor SN		30
28	SFP Vendor	i	69	78	Vendor SN		30
29	SFP Vendor	g	67	79	Vendor SN		30
30	SFP Vendor	h	68	80	Vendor SN		30
31	SFP Vendor	t	74	81	Vendor SN		30
32	SFP Vendor	w	77	82	Vendor SN		30
33	SFP Vendor	a	61	83	Vendor SN		30
34	SFP Vendor	v	76	84	Date Code		30
35	SFP Vendor	e	65	85	Date Code		30
36	Reserved		00	86	Date Code		30
37	IEEE ID		00	87	Date Code		30
38	IEEE ID		00	88	Date Code		30
39	IEEE ID		00	89	Date Code		30
40	Vendor PN	S	53	90	Date Code		20
41	Vendor PN	P	50	91	Date Code		20
42	Vendor PN	L	4C	92	Reserved		00
43	Vendor PN	C	43	93	Reserved		00
44	Vendor PN	-	2D	94	Reserved		00
45	Vendor PN	2	32	95	CC_EXT	Check Code(64-94)	Note 1
46	Vendor PN	0	30	96-127	Read-Only		00
47	Vendor PN	-	2D	128-511	Reserved		00
48	Vendor PN	L	4C	512-n	Vndr Specific		00
49	Vendor PN	B	42	Note 1: Check code will vary depend on manufactring date & SN			

Serial ID Data Fields

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