

SFP-1G43-BX10

TEST REPORT (Brocade)



Content

1. Test Purpose	3
2. Test Result Summary	3
3. Test Equipment Used.....	3
4. Test Data.....	4
4.1 Test Scenario.....	4
4.2 Test Result.....	5

1. Test Purpose

By building test scenarios and simulating the customer's usage environment, we test whether the module's performance meets the customer's requirements.

2. Test Result Summary

Table 2-1: Test Result Summary

Test Items	Test Result
Muti-Version	Pass
Connectivity	Pass
Module Basic Information	Pass
Digital Diagnostic Monitoring	Pass

3. Test Equipment Used

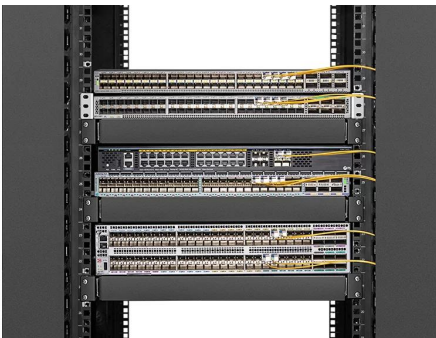
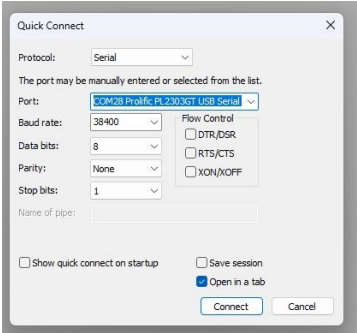
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Brocade Switch	BR-SLX9140	18s.1.00	/
FS Optical Transceiver Module	SFP-1G43-BX10	Brocade Compatible	A1911003896

4. Test Data

4.1 Test Scenario

Table 4-1: Test Scenario

Test Topology	Network topology :  Interoperability test scenario : 
Test Premise	1. Confirm the brand, quantity and placement of the switches to be tested. 2. Prepare control cables, test software and optical fiber patch cords. Power on the switches in advance. 3. Locate the Console port on the switch, which is usually marked as "CON" on the switch, although some switches may display it as "IOIO!" or a computer monitor icon, etc. Use a control cable to connect the switch to the computer.  4. Before connecting the software, it is necessary to confirm the connection port of the control cable. Go to the computer device manager, click on the ports (COM and LPT) to view the ports. After confirming the ports, proceed with the next step.
Test Method	Click to open the SecureCRT Portable software and enter the quick connection interface. ① Protocol selection: Serial ② Port selection: The same as the port you viewed in the previous step ③ Baud rate selection: The same as the baud rate of the port on the target switch ④ Flow control: Do not check this option The remaining configurations can keep the default values. 

Test Steps	① Insert the optical module into the corresponding rate port of the switch, and connect the TX-RX ends with an optical fiber jumper or an MTP self-loop device. Observe whether the module is connected. If not connected, please check the jumper connection or the switch port configuration (login to the switch is required). ② Enter the test interface, input the account and password, log in to the switch and enter privileged mode. ③ According to the switch command configuration table, input the corresponding test command and view the relevant information: port status (connectivity), connection rate, alarm status, module basic information, DDM information, etc. Determine whether it meets the requirements.
------------	---

4.2 Test Result

Table 4-2: Test Result

Test Information	1. Read the switch model name and software version, and read the status of all ports on the switch <pre>SLX# show version</pre> <pre>SLX-OS Operating System Software SLX-OS Operating System Version: 18s.1.00 Copyright (c) 1995-2023 Brocade Communications Systems, Inc. Firmware name: 18s.1.00 Build Time: 07:16:29 Jul 3, 2018 Install Time: 00:31:39 Aug 15, 2018 Kernel: 2.6.34.6 Host Version: Ubuntu 14.04 LTS Host Kernel: Linux 3.14.17 Control Processor: QEMU Virtual CPU version 2.0.0 System Uptime: 0days 0hrs 44mins 1secs</pre>
------------------	--

Test Information	SLX# show interface status					
	Port	Status	Mode	Speed	Type	Description
	Eth 0/1	connected (up)	--	1G	1G-SFP	
	Eth 0/2	sfpAbsent	--	--	--	
	Eth 0/3	connected (up)	--	1G	1G-SFP	
	Eth 0/4	sfpAbsent	--	--	--	
	Eth 0/5	connected (up)	--	1G	1G-SFP	
	Eth 0/6	sfpAbsent	--	--	--	
	Eth 0/7	connected (up)	--	1G	1G-SFP	
	Eth 0/8	sfpAbsent	--	--	--	
	Eth 0/9	sfpAbsent	--	--	--	
	Eth 0/10	sfpAbsent	--	--	--	
	Eth 0/11	sfpAbsent	--	--	--	
	Eth 0/12	sfpAbsent	--	--	--	
	Eth 0/13	sfpAbsent	--	--	--	
	Eth 0/14	sfpAbsent	--	--	--	
	Eth 0/15	sfpAbsent	--	--	--	
	Eth 0/16	sfpAbsent	--	--	--	
	Eth 0/17	sfpAbsent	--	--	--	
	Eth 0/18	sfpAbsent	--	--	--	
	Eth 0/19	sfpAbsent	--	--	--	
	Eth 0/20	sfpAbsent	--	--	--	
	Eth 0/21	sfpAbsent	--	--	--	
	Eth 0/22	sfpAbsent	--	--	--	
	Eth 0/23	sfpAbsent	--	--	--	
	Eth 0/24	sfpAbsent	--	--	--	
	Eth 0/25	sfpAbsent	--	--	--	
	Eth 0/26	sfpAbsent	--	--	--	
	Eth 0/27	sfpAbsent	--	--	--	
	Eth 0/28	sfpAbsent	--	--	--	
	Eth 0/29	sfpAbsent	--	--	--	
	Eth 0/30	sfpAbsent	--	--	--	
	Eth 0/31	sfpAbsent	--	--	--	
	Eth 0/32	sfpAbsent	--	--	--	
	Eth 0/33	sfpAbsent	--	--	--	
	Eth 0/34	sfpAbsent	--	--	--	
	Eth 0/35	sfpAbsent	--	--	--	
	Eth 0/36	sfpAbsent	--	--	--	
	Eth 0/37	sfpAbsent	--	--	--	
	Eth 0/38	sfpAbsent	--	--	--	
	Eth 0/39	sfpAbsent	--	--	--	
	Eth 0/40	sfpAbsent	--	--	--	
	Eth 0/41	sfpAbsent	--	--	--	
	Eth 0/42	sfpAbsent	--	--	--	
	Eth 0/43	sfpAbsent	--	--	--	
	Eth 0/44	sfpAbsent	--	--	--	
	Eth 0/45	sfpAbsent	--	--	--	
	Eth 0/46	sfpAbsent	--	--	--	
	Eth 0/47	sfpAbsent	--	--	--	
	Eth 0/48	sfpAbsent	--	--	--	
	Eth 0/49:1	adminDown	--	--	--	
	Eth 0/49:2	adminDown	--	--	--	
	Eth 0/49:3	adminDown	--	--	--	
	Eth 0/49:4	adminDown	--	--	--	
	Eth 0/50	adminDown	--	--	--	
	Eth 0/51:1	adminDown	--	--	--	
	Eth 0/51:2	adminDown	--	--	--	
	Eth 0/51:3	adminDown	--	--	--	
	Eth 0/51:4	adminDown	--	--	--	
	Eth 0/52	adminDown	--	--	--	
	Eth 0/53	adminDown	--	--	--	
	Eth 0/54	adminDown	--	--	--	
	Eth 0/73	adminDown	--	--	--	

Test Information	2. Read the module's basic information from the switch side SLX# show media interface ethernet 0/3 Interface Ethernet 0/3 Identifier 3 SFP Connector 7 LC Transceiver 0000000040000000 Extended Transceiver 0 Name id Encoding 1 8B10B Baud Rate 13 (units 100 megabaud) Length 9u 10 (units km) Length 9u 100 (units 100 meters) Length 50u 0 (units 10 meters) Length 62.5u 0 (units 10 meters) Length Cu 0 (units 1 meter) Vendor Name BROCADE Vendor OUI 00:05:1e Vendor PN 33005-000 (1GE SFP BXD (Non-OM)) Vendor Rev US Wavelength 4294967250(units nm) Options 001a BR Max 0 BR Min 0 Serial No A1911003896 Date Code 210929 Optical Monitor Yes Temperature 25 Centigrade Voltage 3312.8 (mVolts) Current 0.000 (mAmps) TX Power 15.8 (uWatts) / -18.013 (dBm) RX Power 0.1 (uWatts) / -40.000 (dBm)													
	3. Read the DDM information of the module SLX# show media optical-monitoring interface ethernet 0/3 N/A - Not Available. <table><tr><th>Port</th><th>Optical Monitoring Support</th><th>Module Temperature (C)</th><th>Supply Voltage (mVolts)</th><th>Channel TX Power (uWatts / dBm)</th><th>Bias Current (mAmps)</th><th>Channel RX Power (uWatts / dBm)</th></tr><tr><td>Et 0/3</td><td>YES</td><td>25</td><td>3312.8</td><td>15.8 / -18.013</td><td>0.000</td><td>0.1 / -40.000</td></tr></table>	Port	Optical Monitoring Support	Module Temperature (C)	Supply Voltage (mVolts)	Channel TX Power (uWatts / dBm)	Bias Current (mAmps)	Channel RX Power (uWatts / dBm)	Et 0/3	YES	25	3312.8	15.8 / -18.013	0.000
Port	Optical Monitoring Support	Module Temperature (C)	Supply Voltage (mVolts)	Channel TX Power (uWatts / dBm)	Bias Current (mAmps)	Channel RX Power (uWatts / dBm)								
Et 0/3	YES	25	3312.8	15.8 / -18.013	0.000	0.1 / -40.000								
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.													
Remarks														