

SFP1G-ELX-31

TEST REPORT (Juniper)



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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
Digital Diagnostic Monitoring	Pass

3. Test Equipment Used

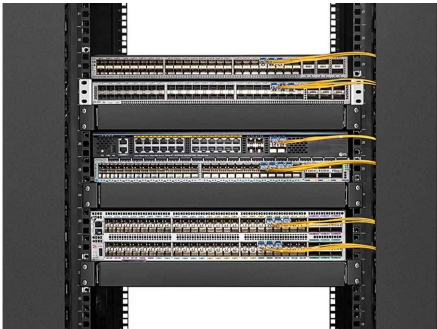
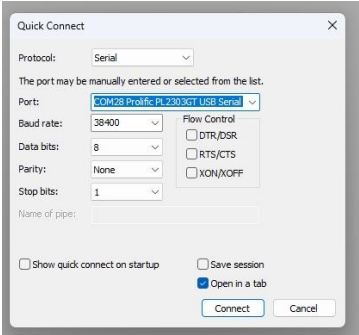
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Juniper Switch	EX4200-24T	10.2R1.8	/
FS Optical Transceiver Module	SFP1G-ELX-31	Juniper Compatible	A1910001217 A1910001216

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.
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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>{master:0} juniper@EX4200-24T> show version fpc0: ----- Hostname: EX4200-24T Model: ex4200-24t JUNOS Base OS boot [10.2R1.8] JUNOS Base OS Software Suite [10.2R1.8] JUNOS Kernel Software Suite [10.2R1.8] JUNOS Crypto Software Suite [10.2R1.8] JUNOS Online Documentation [10.2R1.8] JUNOS Enterprise Software Suite [10.2R1.8] JUNOS Packet Forwarding Engine Enterprise Software Suite [10.2R1.8] JUNOS Routing Software Suite [10.2R1.8] JUNOS Web Management [10.2R1.8]</pre> <pre>{master:0} juniper@EX4200-24T> show cjas ^ syntax error, expecting <command>. juniper@EX4200-24T> show chassis hardware Hardware inventory: Item Version Part number Serial number Description Chassis BM0209377873 EX4200-24T Routing Engine 0 REV 17D 750-021256 BM0209377873 EX4200-24T, 8 POE FPC 0 REV 17D 750-021256 BM0209377873 EX4200-24T, 8 POE CPU BUILTIN BUILTIN FPC CPU PIC 0 BUILTIN BUILTIN 24x 10/100/1000 Base-T PIC 1 REV 07 711-026017 CH0212385714 4x GE SFP+ Xcvr 1 REV 01 740-031850 A1910001221 SFP-LX10 Xcvr 3 REV 01 740-031850 A1910001222 SFP-LX10 Power Supply 0 REV 04 740-020957 AT0509226996 PS 320W AC Fan Tray Fan Tray</pre>
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Test Information	2. Read the DDM information of the module <pre>(master:0) juniper@EX4200-24T> show interfaces diagnostics optics Physical interface: ge-0/1/1 Laser bias current : 21.286 mA Laser output power : 0.2720 mW / -5.65 dBm Module temperature : 23 degrees C / 74 degrees F Module voltage : 3.2200 V Receiver signal average optical power : 0.2465 mW / -6.08 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser output power high alarm : Off Laser output power low alarm : Off Laser output power high warning : Off Laser output power low warning : Off Module temperature high alarm : Off Module temperature low alarm : Off Module temperature high warning : Off Module temperature low warning : Off Module voltage high alarm : Off Module voltage low alarm : Off Module voltage high warning : Off Module voltage low warning : Off Laser rx power high alarm : Off Laser rx power low alarm : Off Laser rx power high warning : Off Laser rx power low warning : Off Laser bias current high alarm threshold : 90.000 mA Laser bias current low alarm threshold : 1.000 mA Laser bias current high warning threshold : 80.000 mA Laser bias current low warning threshold : 2.000 mA Laser output power high alarm threshold : 1.0000 mW / 0.00 dBm Laser output power low alarm threshold : 0.0630 mW / -12.01 dBm Laser output power high warning threshold : 0.7940 mW / -1.00 dBm Laser output power low warning threshold : 0.0790 mW / -11.02 dBm Module temperature high alarm threshold : 90 degrees C / 194 degrees F Module temperature low alarm threshold : -15 degrees C / 5 degrees F Module temperature high warning threshold : 80 degrees C / 176 degrees F Module temperature low warning threshold : -5 degrees C / 23 degrees F Module voltage high alarm threshold : 3.630 V Module voltage low alarm threshold : 2.970 V Module voltage high warning threshold : 3.470 V Module voltage low warning threshold : 3.140 V Laser rx power high alarm threshold : 0.7943 mW / -1.00 dBm Laser rx power low alarm threshold : 0.0032 mW / -24.95 dBm Laser rx power high warning threshold : 0.6310 mW / -2.00 dBm Laser rx power low warning threshold : 0.0040 mW / -23.98 dBm Physical interface: ge-0/1/3 Laser bias current : 21.768 mA Laser output power : 0.2520 mW / -5.99 dBm Module temperature : 23 degrees C / 73 degrees F Module voltage : 3.2120 V Receiver signal average optical power : 0.2405 mW / -6.19 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser output power high alarm : Off Laser output power low alarm : Off Laser output power high warning : Off Laser output power low warning : Off Module temperature high alarm : Off Module temperature low alarm : Off Module temperature high warning : Off Module temperature low warning : Off Module voltage high alarm : Off Module voltage low alarm : Off Module voltage high warning : Off Module voltage low warning : Off Laser rx power high alarm : Off Laser rx power low alarm : Off Laser rx power high warning : Off Laser rx power low warning : Off Laser bias current high alarm threshold : 90.000 mA Laser bias current low alarm threshold : 1.000 mA Laser bias current high warning threshold : 80.000 mA Laser bias current low warning threshold : 2.000 mA Laser output power high alarm threshold : 1.0000 mW / 0.00 dBm Laser output power low alarm threshold : 0.0630 mW / -12.01 dBm Laser output power high warning threshold : 0.7940 mW / -1.00 dBm Laser output power low warning threshold : 0.0790 mW / -11.02 dBm Module temperature high alarm threshold : 90 degrees C / 194 degrees F Module temperature low alarm threshold : -15 degrees C / 5 degrees F Module temperature high warning threshold : 80 degrees C / 176 degrees F Module temperature low warning threshold : -5 degrees C / 23 degrees F Module voltage high alarm threshold : 3.630 V Module voltage low alarm threshold : 2.970 V Module voltage high warning threshold : 3.470 V Module voltage low warning threshold : 3.140 V Laser rx power high alarm threshold : 0.7943 mW / -1.00 dBm Laser rx power low alarm threshold : 0.0032 mW / -24.95 dBm Laser rx power high warning threshold : 0.6310 mW / -2.00 dBm Laser rx power low warning threshold : 0.0040 mW / -23.98 dBm</pre>
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.
Remarks	