

SFP-GEB-T 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
Module Basic Information	Pass

3. Test Equipment Used

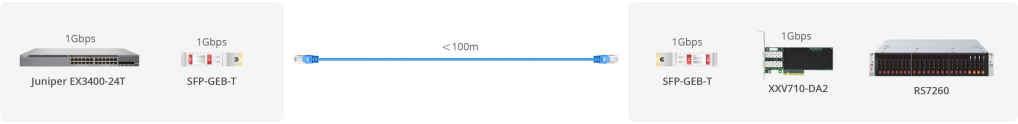
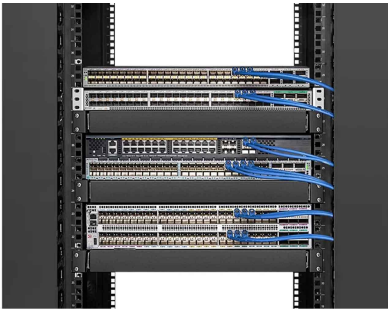
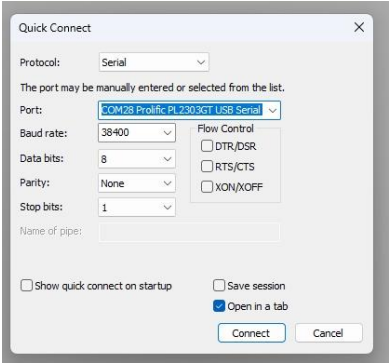
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Juniper Switch	EX3400-24T	15.1X53-D590.1	/
Intel Network Interface Card (NIC)	Intel XXV710-DA2	/	/
FS Optical Transceiver Module	SFP-GEB-T	Juniper Compatible	A1911001961 A1911001962
FS Server	RS7260	/	/

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 "IOIOI" 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, 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} root> show version fpc0: ----- Model: ex3400-24t Junos: 15.1X53-D590.1 JUNOS OS Kernel 32-bit [20180119.e26d166_builder_master] JUNOS OS libs [20180119.e26d166_builder_master] JUNOS OS runtime [20180119.e26d166_builder_master] JUNOS OS time zone information [20180119.e26d166_builder_master] JUNOS py extensions [20181114.201826_builder_junos_151_x53_d590] JUNOS py base [20181114.201826_builder_junos_151_x53_d590] JUNOS OS crypto [20180119.e26d166_builder_master] JUNOS network stack and utilities [20181114.201826_builder_junos_151_x53_d590] JUNOS libs [20181114.201826_builder_junos_151_x53_d590] JUNOS runtime [20181114.201826_builder_junos_151_x53_d590] JUNOS Web Management Platform Package [20181114.201826_builder_junos_151_x53_d590] JUNOS ex libs [20181114.201826_builder_junos_151_x53_d590] JUNOS ex runtime [20181114.201826_builder_junos_151_x53_d590] JUNOS ex platform support [20181114.201826_builder_junos_151_x53_d590] JUNOS modules [20181114.201826_builder_junos_151_x53_d590] JUNOS ex modules [20181114.201826_builder_junos_151_x53_d590] JUNOS Data Plane Crypto Support [20181114.201826_builder_junos_151_x53_d590] JUNOS mtx Data Plane Crypto Support [20181114.201826_builder_junos_151_x53_d590] JUNOS daemons [20181114.201826_builder_junos_151_x53_d590] JUNOS Packet Forwarding Engine Support (EX34XX) [20181114.201826_builder_junos_151_x53_d590] JUNOS jdocs ex [20181114.201826_builder_junos_151_x53_d590] JUNOS jail runtime [20180119.e26d166_builder_master] JUNOS FIPS mode utilities [20181114.201826_builder_junos_151_x53_d590]</pre> <pre>{master:0} root> show chassis hardware Hardware inventory: Item Version Part number Serial number Description Chassis NV0218360349 EX3400-24T Pseudo CB 0 Routing Engine 0 BUILTIN BUILTIN RE-EX3400-24T FPC 0 REV 22 650-059888 NV0218360349 EX3400-24T CPU BUILTIN BUILTIN FPC CPU PIC 0 REV 22 BUILTIN BUILTIN 24x10/100/1000 Base-T PIC 1 REV 22 650-059888 NV0218360349 2x40G QSFP PIC 2 REV 22 650-059888 NV0218360349 4x10G SFP/SFP+ Xcvr 0 REV 01 740-013111 A1911001961 SFP-T Xcvr 1 REV 01 740-013111 A1911001962 SFP-T Xcvr 2 REV 01 740-013111 A1911001963 SFP-T Xcvr 3 REV 01 740-013111 A1911001964 SFP-T Power Supply 0 REV 05 640-060603 1EDV8330P98 JPSU-150W-AC-AFO Power Supply 1 REV 05 640-060603 1EDV8410SXC JPSU-150W-AC-AFO Fan Tray 0 Fan Module, Airflow Out (AFO) Fan Tray 1 Fan Module, Airflow Out (AFO)</pre>
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2. Verify the NIC port status

```
[root@localhost Desktop]# ethtool enp1s0f0
Settings for enp1s0f0:
    Supported ports: [ ]
    Supported link modes: Not reported
    Supported pause frame use: Symmetric Receive-only
    Supports auto-negotiation: Yes
    Supported FEC modes: Not reported
    Advertised link modes: Not reported
    Advertised pause frame use: No
    Advertised auto-negotiation: Yes
    Advertised FEC modes: Not reported
    Speed: 1000Mb/s
    Duplex: Full
    Auto-negotiation: on
    Port: Other
    PHYAD: 0
    Transceiver: internal
    Supports Wake-on: d
    Wake-on: d
    Current message level: 0x00000007 (7)
                        drv probe link
    Link detected: yes
```

Test Information

```
[root@localhost Desktop]# ethtool enp1s0f1
Settings for enp1s0f1:
    Supported ports: [ ]
    Supported link modes: Not reported
    Supported pause frame use: Symmetric Receive-only
    Supports auto-negotiation: Yes
    Supported FEC modes: Not reported
    Advertised link modes: Not reported
    Advertised pause frame use: No
    Advertised auto-negotiation: Yes
    Advertised FEC modes: Not reported
    Speed: 1000Mb/s
    Duplex: Full
    Auto-negotiation: on
    Port: Other
    PHYAD: 0
    Transceiver: internal
    Supports Wake-on: d
    Wake-on: d
    Current message level: 0x00000007 (7)
                        drv probe link
    Link detected: yes
```


3. Read the module's basic information from the NIC side	<pre>[root@localhost Desktop]# ethtool -m enp1s0f0 Identifier : 0x03 (SFP) Extended identifier : 0x04 (GBIC/SFP defined by 2-wire interface ID) Connector : 0x22 (RJ45) Transceiver codes : 0x00 0x00 0x00 0x08 0x00 0x00 0x00 0x00 0x00 Transceiver type : Ethernet: 1000BASE-T Encoding : 0x01 (8B/10B) BR, Nominal : 1300MBd Rate identifier : 0x00 (unspecified) Length (SMF,km) : 0km Length (SMF) : 0m Length (50um) : 0m Length (62.5um) : 0m Length (Copper) : 100m Length (OM3) : 0m Laser wavelength : 0nm Vendor name : FS Vendor OUI : 00:1b:21 Vendor PN : SFP-GB-GE-T Vendor rev : Option values : 0x00 0x1a Option : RX_LOS implemented Option : TX_FAULT implemented Option : TX_DISABLE implemented BR margin, max : 0% BR margin, min : 0% Vendor SN : A2110002251 Date code : 211124</pre> Test Information <pre>[root@localhost Desktop]# ethtool -m enp1s0f1 Identifier : 0x03 (SFP) Extended identifier : 0x04 (GBIC/SFP defined by 2-wire interface ID) Connector : 0x22 (RJ45) Transceiver codes : 0x00 0x00 0x00 0x08 0x00 0x00 0x00 0x00 0x00 Transceiver type : Ethernet: 1000BASE-T Encoding : 0x01 (8B/10B) BR, Nominal : 1300MBd Rate identifier : 0x00 (unspecified) Length (SMF,km) : 0km Length (SMF) : 0m Length (50um) : 0m Length (62.5um) : 0m Length (Copper) : 100m Length (OM3) : 0m Laser wavelength : 0nm Vendor name : FS Vendor OUI : 00:1b:21 Vendor PN : SFP-GB-GE-T Vendor rev : Option values : 0x00 0x1a Option : RX_LOS implemented Option : TX_FAULT implemented Option : TX_DISABLE implemented BR margin, max : 0% BR margin, min : 0% Vendor SN : A2110002252 Date code : 211124</pre>
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.
Remarks	