# SFP-GE-T
# TEST REPORT (Juniper)

# 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 |

## 3. Test Equipment Used

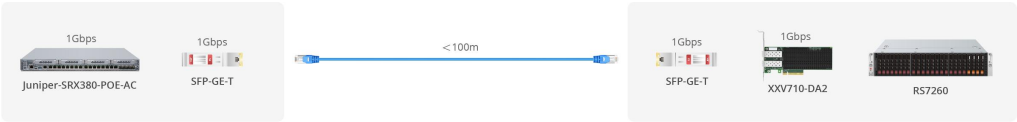
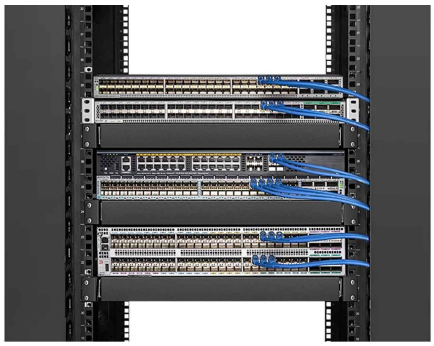
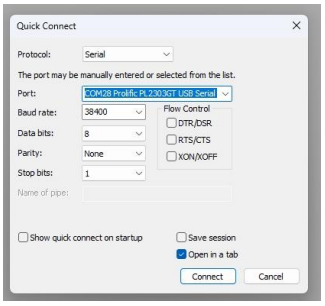
Table 3-1: Test Equipment Used

| Vendor | Device | Soft Version/Compatible Brand | Serial Number |
|---|---|---|---|
| Juniper Switch | SRX380-POE-AC | 20.2R3.9 | / |
| Intel Network Interface Card (NIC) | Intel XXV710-DA2 | / | / |
| FS Optical Transceiver Module | SFP-GE-T | Juniper Compatible | A1911001961<br>A1911001962 |
| FS Server | RS7260 | / | / |

# 4. Test Data

## 4.1 Test Scenario

Table 4-1: Test Scenario

| | |
|---|---|
| **Test Topology** | Network topology :<br>  <br><br>Interoperability test scenario :<br>  |
| **Test Premise** | 1. Confirm the brand, quantity and placement of the switches to be tested.<br>2. Prepare control cables, test software and optical fiber patch cords. Power on the switches in advance.<br>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.<br> <br>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.<br>① Protocol selection: Serial<br>② Port selection: The same as the port you viewed in the previous step<br>③ Baud rate selection: The same as the baud rate of the port on the target switch<br>④ Flow control: Do not check this option<br>The remaining configurations can keep the default values.<br>  <br> |

| | |
|---|---|
| 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).<br>② Enter the test interface, input the account and password, log in to the switch and enter privileged mode.<br>③According 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. |

## 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

```
root> show version
Model: srx380-poe-ac
Junos: 20.2R3.9
JUNOS Software Release [20.2R3.9]
```

```
root> show chassis pic fpc-slot 0 pic-slot 0
FPC slot 0, PIC slot 0 information:
  Type                    16xGE,4*SFP+ Base PIC
  State                   Online
  PIC version             1.6
  Uptime                  1 hour, 51 minutes, 25 seconds

PIC port information:
                Fiber                Xcvr vendor     Wave-    Xcvr       JNPR
  Port Cable type      type  Xcvr vendor      part number      length  Firmware     Rev
  16   GIGE 1000T      n/a   FS             SFP-GB-GE-T      n/a     0.0        REV 01
  17   GIGE 1000T      n/a   FS             SFP-GB-GE-T      n/a     0.0        REV 01
  18   GIGE 1000T      n/a   FS             SFP-GB-GE-T      n/a     0.0        REV 01
  19   GIGE 1000T      n/a   FS             SFP-GB-GE-T      n/a     0.0        REV 01
```

| | |
|---|---|
| Test Information | 2. Verify the NIC port status<br>[root@localhost Desktop]# ethtool enp1s0f0<br>Settings for enp1s0f0:<br>Supported ports: [ ]<br>Supported link modes: Not reported<br>Supported pause frame use: Symmetric Receive-only<br>Supports auto-negotiation: Yes<br>Supported FEC modes: Not reported<br>Advertised link modes: Not reported<br>Advertised pause frame use: No<br>Advertised auto-negotiation: Yes<br>Advertised FEC modes: Not reported<br>Speed: 1000Mb/s<br>Duplex: Full<br>Auto-negotiation: on<br>Port: Other<br>PHYAD: 0<br>Transceiver: internal<br>Supports Wake-on: d<br>Wake-on: d<br>Current message level: 0x00000007 (7)<br>drv probe link<br>Link detected: yes<br>[root@localhost Desktop]# ethtool enp1s0f1<br>Settings for enp1s0f1:<br>Supported ports: [ ]<br>Supported link modes: Not reported<br>Supported pause frame use: Symmetric Receive-only<br>Supports auto-negotiation: Yes<br>Supported FEC modes: Not reported<br>Advertised link modes: Not reported<br>Advertised pause frame use: No<br>Advertised auto-negotiation: Yes<br>Advertised FEC modes: Not reported<br>Speed: 1000Mb/s<br>Duplex: Full<br>Auto-negotiation: on<br>Port: Other<br>PHYAD: 0<br>Transceiver: internal<br>Supports Wake-on: d<br>Wake-on: d<br>Current message level: 0x00000007 (7)<br>drv probe link<br>Link detected: yes |

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