SFP-GE-T

TEST REPORT (Cisco)

Content

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

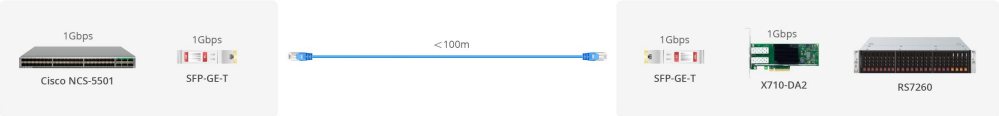
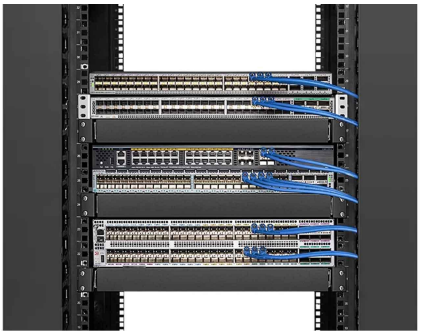
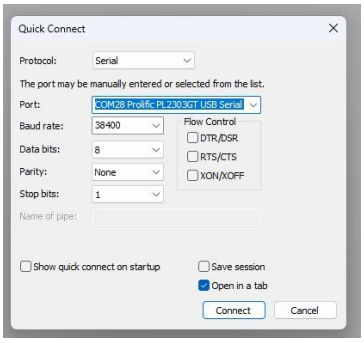
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Cisco Switch	NCS-5501	7.2.2	/
Intel Network Interface Card (NIC)	Intel X710-DA2	/	/
FS Optical Transceiver Module	SFP-GE-T	Cisco Compatible	A1911001801 A1911001804
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. 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 RP/0/RP0/CPU0:ios#show version Thu Oct 19 07:24:09.027 UTC Cisco IOS XR Software, Version 7.2.2 Copyright (c) 2013-2021 by Cisco Systems, Inc. Build Information: Built By : ingunawa Built On : Mon Jan 25 21:52:54 PST 2021 Built Host : iox-ucs-013 Workspace : /auto/srcarchive15/prod/7.2.2/ncs5500/ws Version : 7.2.2 Location : /opt/cisco/XR/packages/ Label : 7.2.2 cisco NCS-5500 () processor System uptime is 1 hour 19 minutes

Test Information

```
RP/0/RP0/CPU0:ios#show interfaces brief
Thu Oct 19 07:24:14.576 UTC

          Intf      Intf      LineP          Encap  MTU       BW
          Name      State     State          Type (byte)    (Kbps)
--------------------------------------------------------------------------------
           Nu0       up        up           Null  1500       0
       Gi0/0/0/0      up        up            ARPA  1514    1000000
       Gi0/0/0/2      up        up            ARPA  1514    1000000
       Gi0/0/0/4      up        up            ARPA  1514    1000000
       Gi0/0/0/6      up        up            ARPA  1514    1000000
       Te0/0/0/1    down      down             ARPA  1514   10000000
       Te0/0/0/3    down      down             ARPA  1514   10000000
       Te0/0/0/5    down      down             ARPA  1514   10000000
       Te0/0/0/7    down      down             ARPA  1514   10000000
       Te0/0/0/8    down      down             ARPA  1514   10000000
       Te0/0/0/9    down      down             ARPA  1514   10000000
      Te0/0/0/10  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/11  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/12    down      down             ARPA  1514   10000000
      Te0/0/0/13    down      down             ARPA  1514   10000000
      Te0/0/0/14  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/15  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/16  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/17  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/18  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/19  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/20  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/31  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/32    down      down             ARPA  1514   10000000
      Te0/0/0/33    down      down             ARPA  1514   10000000
      Te0/0/0/34    down      down             ARPA  1514   10000000
      Te0/0/0/35    down      down             ARPA  1514   10000000
      Te0/0/0/36  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/37  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/38  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/39  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/40  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/41  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/42  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/43  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/44  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/45  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/46  admin-down  admin-down          ARPA  1514   10000000
      Te0/0/0/47  admin-down  admin-down          ARPA  1514   10000000
       Hu0/0/1/4    down      down             ARPA  1514  100000000
       Hu0/0/1/5    down      down             ARPA  1514  100000000
     Te0/0/1/0/0  admin-down  admin-down          ARPA  1514   10000000
     Te0/0/1/0/1  admin-down  admin-down          ARPA  1514   10000000
     Te0/0/1/0/2  admin-down  admin-down          ARPA  1514   10000000
     Te0/0/1/0/3  admin-down  admin-down          ARPA  1514   10000000
     TF0/0/1/1/0  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/1/1  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/1/2  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/1/3  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/2/0  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/2/1  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/2/2  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/2/3  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/3/0  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/3/1  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/3/2  admin-down  admin-down          ARPA  1514   25000000
     TF0/0/1/3/3  admin-down  admin-down          ARPA  1514   25000000
  Mg0/RP0/CPU0/0     down      down           ARPA  1514    1000000

RP/0/RP0/CPU0:ios#show interfaces gigabitEthernet 0/0/0/6
Thu Oct 19 07:24:26.531 UTC
```

Test Information	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 [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

Test Information	3. Read the module's basic information from the switch side Internal data for interface: GigabitEthernet0/0/0/0 Subport Number : 255 Port Number : 0 * Bay Number : 0 * Board Type : 0x60020201 * Port Type : 1GE * Bandwidth(Kbps) : 1000000 * Transport mode : LAN * BIA MAC addr : d46a:35ec:3818 Oper. MAC addr : d46a:35ec:3818 Egress MAC addr : d46a:35ec:3818 Port Available : true * Status polling is : disabled * Status events are : disabled I/F Handle : 0x000000f8 * Cfg Link Enabled : enabled H/W Tx Enable : yes MTU : 1514 * H/W Speed : 1 Gbps * H/W Duplex : Full * H/W Loopback Type : None * FEC : Not Configured * H/W FlowCtrl Type : Disabled * H/W AutoNeg Enable : Off * H/W Link Defects : No Fault * Link Up : yes * Link Led Status : Green ON * Pluggable Present : Yes * Pluggable Type : SFP 1G 1000BASE-T Pluggable PID : GLC-T * Pluggable Compl. : Third Party Optics SFP EEPROM port: 0 Xcvr Type: SFP Xcvr Code: SFP 1G 1000BASE-T Encoding: 8B10B Bit Rate: 1300 Mbps Vendor Name: FS Vendor OUI: 00.00.00 Vendor Part Number: SFP-GB-GE-T (rev.: F) Laser wavelength: 0 nm (fraction: 0.00 nm) Optional SFP Signal: Tx_Disable, Vendor Serial Number: A1911001801 Date Code (yy/mm/dd): 21/07/09 lot code: Diagnostic Monitoring: Enhanced Options: None

Test Information	Internal data for interface: GigabitEthernet0/0/0/6 Subport Number : 255 Port Number : 6 * Bay Number : 0 * Board Type : 0x60020201 * Port Type : 1GE * Bandwidth(Kbps) : 1000000 * Transport mode : LAN * BIA MAC addr : d46a:35ec:3818 Oper. MAC addr : d46a:35ec:3818 Egress MAC addr : d46a:35ec:3818 Port Available : true * Status polling is : disabled * Status events are : disabled I/F Handle : 0x000000f8 * Cfg Link Enabled : enabled H/W Tx Enable : yes MTU : 1514 * H/W Speed : 1 Gbps * H/W Duplex : Full * H/W Loopback Type : None * FEC : Not Configured * H/W FlowCtrl Type : Disabled * H/W AutoNeg Enable : Off * H/W Link Defects : No Fault * Link Up : yes * Link Led Status : Green ON * Pluggable Present : Yes * Pluggable Type : SFP 1G 1000BASE-T Pluggable PID : GLC-T * Pluggable Compl. : Third Party Optics SFP EEPROM port: 6 Xcvr Type: SFP Xcvr Code: SFP 1G 1000BASE-T Encoding: 8B10B Bit Rate: 1300 Mbps Vendor Name: FS Vendor OUI: 00.00.00 Vendor Part Number: SFP-GB-GE-T (rev.: F) Laser wavelength: 0 nm (fraction: 0.00 nm) Optional SFP Signal: Tx_Disable, Vendor Serial Number: A1911001804 Date Code (yy/mm/dd): 21/07/09 lot code: Diagnostic Monitoring: Enhanced Options: None

Test Information	4. Read the module's basic information from the NIC side [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 [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
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.
Remarks	