SFP-GEB-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

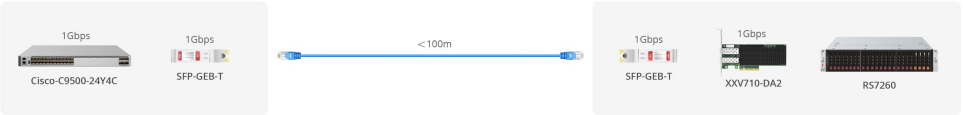
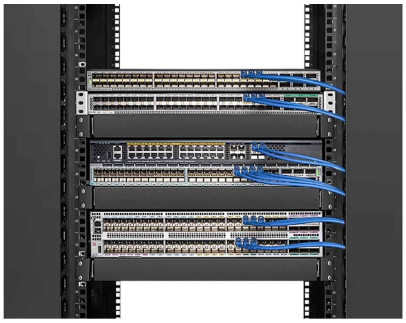
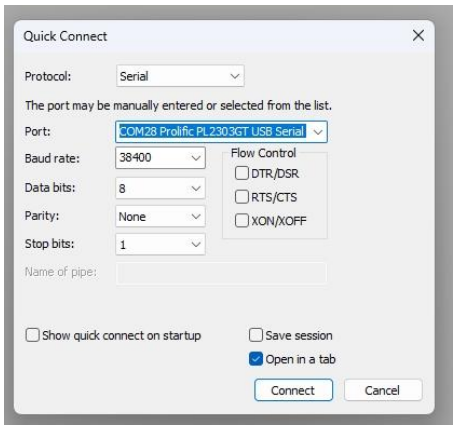
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Cisco Switch	C9500-24Y4C	17.06.03	/
Intel Network Interface Card (NIC)	Intel XXV710-DA2	/	/
FS Optical Transceiver Module	SFP-GEB-T	Cisco Compatible	A1911001801 A1911001802
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 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

```
C9500-24Y4C#show ver
C9500-24Y4C#show version
Cisco IOS XE Software, Version 17.06.03
Cisco IOS Software [Bengaluru], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 17.6.3, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
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Compiled Wed 30-Mar-22 23:09 by mcpre


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or the applicable URL provided on the flyer accompanying the IOS-XE
software.


ROM: IOS-XE ROMMON
BOOTLDR: System Bootstrap, Version 17.8.1r[FC1], RELEASE SOFTWARE (P)

C9500-24Y4C uptime is 3 hours, 15 minutes
Uptime for this control processor is 3 hours, 16 minutes
System returned to ROM by PowerOn
System image file is "bootflash:cat9k_iosxe.17.06.03.SPA.bin"
Last reload reason: PowerOn
```

```
C9500-24Y4C#show interfaces status

Port      Name               Status       Vlan       Duplex  Speed Type
Twe1/0/1                     connected    routed     a-full a-1000 10/100/1000BaseTX SFP
Twe1/0/2                     notconnect   routed       auto   auto unknown
Twe1/0/3                     connected    1          a-full a-1000 10/100/1000BaseTX SFP
Twe1/0/4                     notconnect   1            auto   auto unknown
Twe1/0/5                     connected    1          a-full a-1000 10/100/1000BaseTX SFP
Twe1/0/6                     notconnect   1            auto   auto unknown
Twe1/0/7                     connected    1          a-full a-1000 10/100/1000BaseTX SFP
Twe1/0/8                     notconnect   1            auto   auto unknown
Twe1/0/9                     notconnect   1            auto   auto unknown
Twe1/0/10                    notconnect   routed       auto   auto unknown
Twe1/0/11                    notconnect   1            auto   auto unknown
Twe1/0/12                    notconnect   1            auto   auto unknown
Twe1/0/13                    notconnect   1            auto   auto unknown
Twe1/0/14                    notconnect   1            auto   auto unknown
Twe1/0/15                    notconnect   routed       auto   auto unknown
Twe1/0/16                    notconnect   1            auto   auto unknown
Twe1/0/17                    notconnect   1            auto   auto unknown

Port      Name               Status       Vlan       Duplex  Speed Type
Twe1/0/18                    notconnect   1            auto   auto unknown
Twe1/0/19                    notconnect   1            auto   auto unknown
Twe1/0/20                    notconnect   1            auto    25G unknown
Twe1/0/21                    notconnect   1            auto   auto unknown
Twe1/0/22                    notconnect   1            auto   auto unknown
Twe1/0/23                    notconnect   1            auto   auto unknown
Twe1/0/24                    notconnect   1            auto   auto unknown
Hu1/0/25                     notconnect   routed       auto   auto unknown
Hu1/0/26                     notconnect   routed       auto   auto unknown
Hu1/0/27                     notconnect   routed       auto   auto unknown
Hu1/0/28                     notconnect   routed       auto   auto unknown
```

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 IDPROM for transceiver TwentyFiveGigE1/0/1: Description = SFP or SFP+ optics (type 3) Transceiver Type: = GE T (26) Product Identifier (PID) = GLC-T Vendor Revision = F Serial Number (SN) = A1911001801 Vendor Name = FS Vendor OUI (IEEE company ID) = 00.00.00 (0) CLEI code = CNS8TUTAAB Cisco part number = 30-1410-03 Device State = Enabled. Date code (yy/mm/dd) = 21/07/09 Connector type = . Encoding = 8B10B (1) Nominal bitrate = GE (1300 Mbits/s) Minimum bit rate as % of nominal bit rate = not specified Maximum bit rate as % of nominal bit rate = not specified The transceiver type is 26 Link reach for 9u fiber (km) = SX(550/270m) (0) 1xFC-MM(500/300m) (0) 2xFC-MM(300/150m) (0) ESCON-MM(2km) (0) Link reach for 9u fiber (m) = SX(550/270m) (0) 1xFC-MM(500/300m) (0) 2xFC-MM(300/150m) (0) ESCON-MM(2km) (0) Link reach for 50u fiber (m) = SR(2km) (0) IR-1(15km) (0) IR-2(40km) (0) LR-1(40km) (0) LR-2(80km) (0) LR-3(80km) (0) DX(40KM) (0) HX(40km) (0) ZX(80km) (0) VX(100km) (0) 1xFC, 2xFC-SM(10km) (0) ESCON-SM(20km) (0) Link reach for 62.5u fiber (m) = SR(2km) (0) IR-1(15km) (0) IR-2(40km) (0) LR-1(40km) (0) LR-2(80km) (0) LR-3(80km) (0) DX(40KM) (0) HX(40km) (0) ZX(80km) (0) VX(100km) (0) 1xFC, 2xFC-SM(10km) (0) ESCON-SM(20km) (0) Nominal laser wavelength = 0 nm. DWDM wavelength fraction = 0.0 nm. Supported options = Tx disable

Test Information	IDPROM for transceiver TwentyFiveGigE1/0/3: Description = SFP or SFP+ optics (type 3) Transceiver Type: = GE T (26) Product Identifier (PID) = GLC-T Vendor Revision = F Serial Number (SN) = A1911001802 Vendor Name = FS Vendor OUI (IEEE company ID) = 00.00.00 (0) CLEI code = CNS8TUTAAB Cisco part number = 30-1410-03 Device State = Enabled. Date code (yy/mm/dd) = 21/07/09 Connector type = . Encoding = 8B10B (1) Nominal bitrate = GE (1300 Mbits/s) Minimum bit rate as % of nominal bit rate = not specified Maximum bit rate as % of nominal bit rate = not specified The transceiver type is 26 Link reach for 9u fiber (km) = SX(550/270m) (0) 1xFC-MM(500/300m) (0) 2xFC-MM(300/150m) (0) ESCON-MM(2km) (0) Link reach for 9u fiber (m) = SX(550/270m) (0) 1xFC-MM(500/300m) (0) 2xFC-MM(300/150m) (0) ESCON-MM(2km) (0) Link reach for 50u fiber (m) = SR(2km) (0) IR-1(15km) (0) IR-2(40km) (0) LR-1(40km) (0) LR-2(80km) (0) LR-3(80km) (0) DX(40KM) (0) HX(40km) (0) ZX(80km) (0) VX(100km) (0) 1xFC, 2xFC-SM(10km) (0) ESCON-SM(20km) (0) Link reach for 62.5u fiber (m) = SR(2km) (0) IR-1(15km) (0) IR-2(40km) (0) LR-1(40km) (0) LR-2(80km) (0) LR-3(80km) (0) DX(40KM) (0) HX(40km) (0) ZX(80km) (0) VX(100km) (0) 1xFC, 2xFC-SM(10km) (0) ESCON-SM(20km) (0) Nominal laser wavelength = 0 nm. DWDM wavelength fraction = 0.0 nm. Supported options = Tx disable

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	