

SFP-10G32-BX10

TEST REPORT (Cisco)



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1.Test Purpose

By building test scenarios and simulating the customer's usage environment, we test whether the module 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
Digital Diagnostic Monitoring	Pass

3.Test Equipment Used

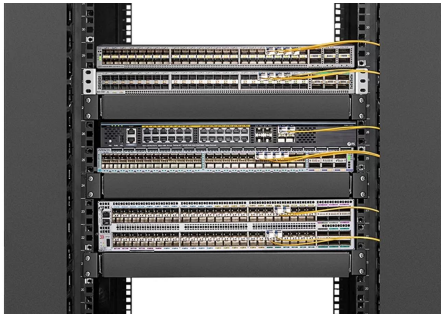
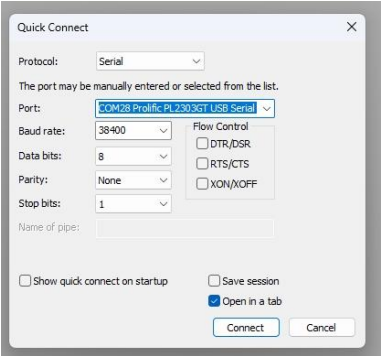
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Cisco Switch	C9300X-12Y	17.12.03	/
FS Optical Transceiver Module	SFP-10G32-BX10	Cisco Compatible	Y2311282625 Y2311282879

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 Information	2.Read the module's basic information from the switch side Switch#show idprom interface twe1/0/1 detail General SFP Information <pre> ----- Identifier : SFP/SFP+ Ext.Identifier : SFP function is defined by two-wire interface ID only Connector : LC connector Transceiver 10/40GE Comp code : Unknown SONET Comp code : Unknown GE Comp code : Unknown Link length : Unknown Technology : Unknown Media : Unknown Speed : Unknown Encoding : 64B/66B BR_Nominal : 10300 Mbps Length(9um)-km : 10 km Length(9um) : 10000 m Length(50um) : GBIC does not support 50 micron multi mode OM2 fibre Length(62.5um) : GBIC does not support 62.5 micron multi mode OM1 fibre Length(Copper) : GBIC does not support 50 micron multi mode OM4 fibre Vendor Name : FS Vendor Part Number : SFP-10G32-BX10 Vendor Revision : 0x20 0x20 0x20 0x20 Vendor Serial Number : Y2311282625 Wavelength : 1270.00 nm CC_BASE : 0x01 ----- Extended ID Fields ----- Options : 0x00 0x1A BR, max : 0x00 BR, min : 0x00 Date code : 231213 Diag monitoring : Implemented Internally calibrated : Yes Externally calibrated: No Rx.Power measurement : Avg.Power Address Change : Not Required CC_EXT : 0xDA ----- Other Information ----- Chk for link status : 00 Flow control Receive : ON Flow control Send : Off Administrative Speed : 10000 Administrative Duplex : full Operational Speed : 10000 Operational Duplex : full ----- </pre>
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**Test
Information**

Switch#show idprom interface twe1/0/2 detail

General SFP Information

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Identifier       : SFP/SFP+
Ext.Identifier   : SFP function is defined by two-wire interface ID only
Connector       : LC connector
Transceiver
10/40GE Comp code : Unknown
SONET Comp code  : Unknown
GE Comp code     : Unknown
Link length      : Unknown
Technology       : Unknown
Media           : Unknown
Speed           : Unknown
Encoding        : 64B/66B
BR_Nominal       : 10300 Mbps
Length(9um)-km   : 10 km
Length(9um)      : 10000 m
Length(50um)     : GBIC does not support 50 micron multi mode OM2 fibre
Length(62.5um)   : GBIC does not support 62.5 micron multi mode OM1 fibre
Length(Copper)   : GBIC does not support 50 micron multi mode OM4 fibre
Vendor Name      : FS
Vendor Part Number : SFP-10G32-BX10
Vendor Revision   : 0x20 0x20 0x20 0x20
Vendor Serial Number : Y2311282879
Wavelength       : 1270.00 nm
CC_BASE          : 0x01
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Extended ID Fields

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Options         : 0x00 0x1A
BR, max         : 0x00
BR, min         : 0x00
Date code       : 231213
Diag monitoring  : Implemented
Internally calibrated : Yes
Externally calibrated: No
Rx.Power measurement : Avg.Power
Address Change   : Not Required
CC_EXT          : 0xE5
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Other Information

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Chk for link status : 00
Flow control Receive : ON
Flow control Send    : Off
Administrative Speed : 10000
Administrative Duplex : full
Operational Speed    : 10000
Operational Duplex    : full
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3. Read the DDM information of the module

Switch#show interfaces txe1/0/1 transceiver detail
 ITU Channel not available (Wavelength not available),
 Transceiver is internally calibrated.
 mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable.
 ++ : high alarm, + : high warning, - : low warning, -- : low alarm.
 A2D readouts (if they differ), are reported in parentheses.
 The threshold values are calibrated.

Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
Txe1/0/1	37.1	88.0	85.0	-40.0	-43.0

Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Warn Threshold (Volts)	Low Alarm Threshold (Volts)
Txe1/0/1	3.26	3.63	3.46	3.13	2.97

Port	Current Lane (milliamperes)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Warn Threshold (mA)	Low Alarm Threshold (mA)
Txe1/0/1	N/A 42.9	90.0	85.0	15.0	10.0

Port	Optical Transmit Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Txe1/0/1	N/A -1.6	2.0	0.5	-8.5	-10.0

Port	Optical Receive Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Txe1/0/1	N/A -1.5	2.5	0.5	-14.1	-16.5

Test
Information

Switch#show interfaces txe1/0/2 transceiver detail
 ITU Channel not available (Wavelength not available),
 Transceiver is internally calibrated.
 mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable.
 ++ : high alarm, + : high warning, - : low warning, -- : low alarm.
 A2D readouts (if they differ), are reported in parentheses.
 The threshold values are calibrated.

Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
Txe1/0/2	36.7	88.0	85.0	-40.0	-43.0

Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Warn Threshold (Volts)	Low Alarm Threshold (Volts)
Txe1/0/2	3.25	3.63	3.46	3.13	2.97

Port	Current Lane (milliamperes)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Warn Threshold (mA)	Low Alarm Threshold (mA)
Txe1/0/2	N/A 37.4	90.0	85.0	15.0	10.0

Port	Optical Transmit Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Txe1/0/2	N/A -1.8	2.0	0.5	-8.5	-10.0

Port	Optical Receive Power Lane (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Warn Threshold (dBm)	Low Alarm Threshold (dBm)
Txe1/0/2	N/A -1.2	2.5	0.5	-14.1	-16.5

Test Conclusion

After completing the above test content, all the test information should be copied and pasted into a TXT document.

Remarks