

SFP-10G-T-80

TEST REPORT (Arista)



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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

3. Test Equipment Used

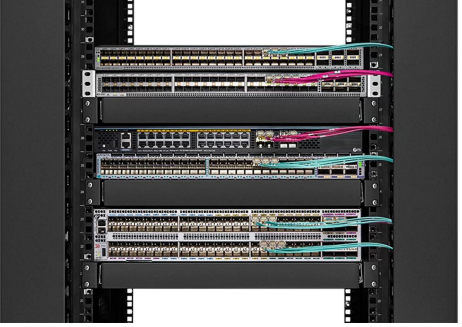
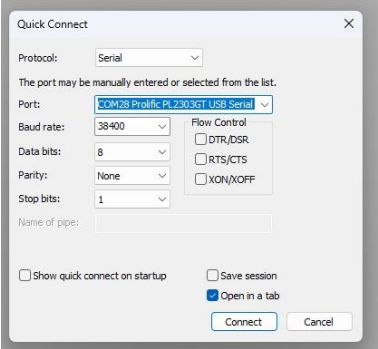
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Arista Switch	DCS-7020SR-24C2-F	4.26.4M	/
Intel Network Interface Card (NIC)	Intel X710-DA2	9.50 0x8000f167	/
FS Optical Transceiver Module	SFP-10G-T-80	Arista Compatible	A2407030501 A2407030502
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. 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

```
DCS-7020SR-24C2-F#show version
Arista DCS-7020SR-24C2-F
Hardware version: 11.02
Serial number: JPA22443420
Hardware MAC address: e8ae.c5f1.06f1
System MAC address: e8ae.c5f1.06f1

Software image version: 4.26.4M
Architecture: i686
Internal build version: 4.26.4M-25280047.4264M
Internal build ID: 79589245-f1f3-49b7-8bee-cbfacac004e6
Image format version: 1.0

Uptime: 3 weeks, 6 days, 1 hour and 8 minutes
Total memory: 8098964 kB
Free memory: 6461080 kB
```

```
DCS-7020SR-24C2-F#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		notconnect	1	full	10G	Not Present		
Et2		notconnect	1	full	10G	Not Present		
Et3		connected	1	a-full	a-10G	10GBASE-T		
Et4		notconnect	1	full	10G	Not Present		
Et5		connected	1	a-full	a-10G	10GBASE-T		
Et6		notconnect	1	full	10G	Not Present		
Et7		notconnect	1	full	10G	Not Present		
Et8		notconnect	1	full	10G	Not Present		
Et9		notconnect	1	full	10G	Not Present		
Et10		notconnect	1	full	10G	Not Present		
Et11		notconnect	1	full	10G	Not Present		
Et12		notconnect	1	full	10G	Not Present		
Et13		notconnect	1	full	10G	Not Present		
Et14		notconnect	1	full	10G	Not Present		
Et15		notconnect	1	full	10G	Not Present		
Et16		notconnect	1	full	10G	Not Present		
Et17		notconnect	1	full	10G	Not Present		
Et18		notconnect	1	full	10G	Not Present		
Et19		notconnect	1	full	10G	Not Present		
Et20		notconnect	1	full	10G	Not Present		
Et21		notconnect	1	full	10G	Not Present		
Et22		notconnect	1	full	10G	Not Present		
Et23		notconnect	1	full	10G	Not Present		
Et24		notconnect	1	full	10G	Not Present		
Et25/1		notconnect	1	full	100G	Not Present		
Et26/1		notconnect	1	full	100G	Not Present		
Ma1		notconnect	routed	auto	auto	10/100/1000		

Test Information	2. Verify the NIC port status <pre> Settings for ens4f0: Supported ports: [FIBRE] Supported link modes: 10000baseT/Full Supported pause frame use: Symmetric Receive-only Supports auto-negotiation: No Supported FEC modes: Not reported Advertised link modes: 10000baseT/Full Advertised pause frame use: No Advertised auto-negotiation: No Advertised FEC modes: Not reported Speed: 10000Mb/s Duplex: Full Auto-negotiation: off Port: Direct Attach Copper PHYAD: 0 Transceiver: internal Supports Wake-on: d Wake-on: d Current message level: 0x00000007 (7) drv probe link Link detected: yes [root@RS5220 ~]# ethtool ens4f1 Settings for ens4f1: Supported ports: [FIBRE] Supported link modes: 10000baseT/Full Supported pause frame use: Symmetric Receive-only Supports auto-negotiation: No Supported FEC modes: Not reported Advertised link modes: 10000baseT/Full Advertised pause frame use: No Advertised auto-negotiation: No Advertised FEC modes: Not reported Speed: 10000Mb/s Duplex: Full Auto-negotiation: off Port: Direct Attach Copper PHYAD: 0 Transceiver: internal Supports Wake-on: d Wake-on: d Current message level: 0x00000007 (7) drv probe link Link detected: yes </pre> 3. Read the module's basic information from the switch side <pre> DCS-7020SR-24C2-F#show interfaces ethernet 3 transceiver properties Name: Et3 Administrative speed: 10G Administrative duplex: full Operational speed: 10G(forced) Operational duplex: full(forced) Media type: 10GBASE-T Speed capabilities: 100M/full,1G/full,10G/full Host error correction: unsupported DCS-7020SR-24C2-F#show interfaces ethernet 5 transceiver properties Name: Et5 Administrative speed: auto Administrative duplex: auto Operational speed: 10G(auto-negotiated) Operational duplex: full(auto-negotiated) Media type: 10GBASE-T Speed capabilities: 100M/full,1G/full,10G/full Host error correction: unsupported </pre>
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Test Information	4. Read the module's basic information from the NIC side <pre>[root@RS5220 ~]# ethtool -m ens4f0 Identifier : 0x03 (SFP) Extended identifier : 0x04 (GBIC/SFP defined by 2-wire interface ID) Connector : 0x22 (RJ45) Transceiver codes : 0x00 0x00 0x00 0x00 0x00 0x04 0x00 0x00 0x00 Transceiver type : Passive Cable Encoding : 0x06 (64B/66B) BR, Nominal : 10300MBd Rate identifier : 0x02 (8/4/2G Rx Rate_Select only) Length (SMF,km) : 0km Length (SMF) : 0m Length (50um) : 0m Length (62.5um) : 0m Length (Copper) : 80m Length (OM3) : 0m Passive Cu complnce. : 0x00 (unspecified) [SFF-8472 rev10.4 only] Vendor name : FS Vendor OUI : 00:1b:21 Vendor PN : SFP-10G-T-80 Vendor rev : A Option values : 0x00 0x3a Option : RX_LOS implemented Option : TX_FAULT implemented Option : TX_DISABLE implemented Option : RATE_SELECT implemented BR margin, max : 0% BR margin, min : 0% Vendor SN : A2407030502 Date code : 240718 [root@RS5220 ~]# ethtool -m ens4f1 Identifier : 0x03 (SFP) Extended identifier : 0x04 (GBIC/SFP defined by 2-wire interface ID) Connector : 0x22 (RJ45) Transceiver codes : 0x00 0x00 0x00 0x00 0x00 0x04 0x00 0x00 0x00 Transceiver type : Passive Cable Encoding : 0x06 (64B/66B) BR, Nominal : 10300MBd Rate identifier : 0x02 (8/4/2G Rx Rate_Select only) Length (SMF,km) : 0km Length (SMF) : 0m Length (50um) : 0m Length (62.5um) : 0m Length (Copper) : 80m Length (OM3) : 0m Passive Cu complnce. : 0x00 (unspecified) [SFF-8472 rev10.4 only] Vendor name : FS Vendor OUI : 00:1b:21 Vendor PN : SFP-10G-T-80 Vendor rev : A Option values : 0x00 0x3a Option : RX_LOS implemented Option : TX_FAULT implemented Option : TX_DISABLE implemented Option : RATE_SELECT implemented BR margin, max : 0% BR margin, min : 0% Vendor SN : A2407030501 Date code : 240718</pre>
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.
Remarks	