

SFP-10GSR-85

TEST REPORT (Arista)

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 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


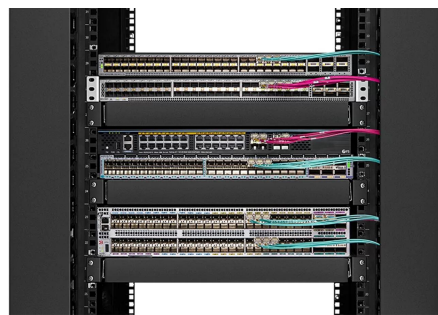

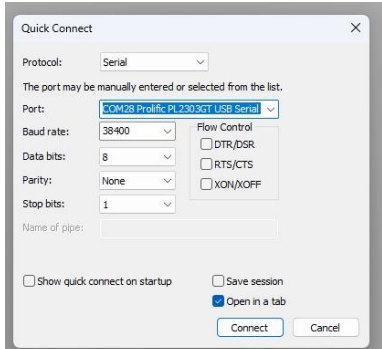
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Arista Switch	DCS-7050SX3-48YC8-R	4.23.3M	/
Intel Network Interface Card (NIC)	XXV710-DA2	9.50 0x8000f177	/
FS Optical Transceiver Module	SFP-10GSR-85	Arista Compatible	A1920014787 A1920014786
FS Server	RS7260	/	/

4. Test Data

4.1 Test Scenario

Table 4-1: Test Scenario

<p>Test Topology</p>	<p>Network topology:</p>  <p>Interoperability test scenario :</p> 
<p>Test Premise</p>	<ol style="list-style-type: none"> 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.  <ol style="list-style-type: none"> 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.
<p>Test Method</p>	<p>Click to open the SecureCRT Portable software and enter the quick connection interface.</p> <ol style="list-style-type: none"> 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 <p>The remaining configurations can keep the default values.</p> 

Test Steps	<p>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).</p> <p>② Enter the test interface, input the account and password, log in to the switch and enter privileged mode.</p> <p>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, DDM information, etc. Determine whether it meets the requirements.</p>
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4.2 Test Result

Table 4-2: Test Result

Test Information	<p>1. Read the switch model name and software version, and read the status of all ports on the switch</p> <pre>DCS-7050SX3-48YC8-R#show version Arista DCS-7050SX3-48YC8-R Hardware version: 11.15 Serial number: JPE21167420 Hardware MAC address: 2cdd.e928.259d System MAC address: 2cdd.e928.259d Software image version: 4.32.1F Architecture: x86_64 Internal build version: 4.32.1F-37265360.4321F Internal build ID: e16c2805-5da5-417a-83c2-50dff70e7c19 Image format version: 3.0 Image optimization: Default Uptime: 1 week, 5 days, 4 hours and 17 minutes Total memory: 8099732 kB Free memory: 5954152 kB</pre>
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Test Information

System has 56 switched transceiver slots

Port	Manufacturer	Model	Serial Number	Rev
1	Not Present			
2	Not Present			
3	Not Present			
4	Not Present			
5	Not Present			
6	Not Present			
7	Arista Networks	SFP-10GSR-85	A1920014787	0002
8	Arista Networks	SFP-10GSR-85	A1920014786	0002
9	Not Present			
10	Not Present			
11	Not Present			
12	Not Present			
13	Not Present			
14	Not Present			
15	Not Present			
16	Not Present			
17	Not Present			
18	Not Present			
19	Not Present			
20	Not Present			
21	Not Present			
22	Not Present			
23	Not Present			
24	Not Present			
25	Not Present			
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36	Not Present			
37	Not Present			
38	Not Present			
39	Not Present			
40	Not Present			
41	Not Present			
42	Not Present			
43	Not Present			
44	Not Present			
45	Not Present			
46	Not Present			
47	Not Present			
48	Not Present			
49	Not Present			
50	Not Present			
51	Not Present			
52	Not Present			
53	Not Present			
54	Not Present			
55	Not Present			
56	Not Present			

Test Information	<p>2. Verify the NIC port status</p> <div style="border: 1px solid black; padding: 10px; background-color: #f0f0f0;"> <p>Operational Info -----</p> <p>State : Active Physical state : LinkUp Speed : 10GbE Width : 1x FEC : No FEC Loopback Mode : No Loopback Auto Negotiation : ON</p> <p>Supported Info -----</p> <p>Enabled Link Speed : 0x38007011 (25G,10G,1G) Supported Cable Speed : 0x00002000 (10G)</p> <p>Troubleshooting Info -----</p> <p>Status Opcode : 0 Group Opcode : N/A Recommendation : No issue was observed</p> <p>Tool Information -----</p> <p>Firmware Version : 13.2014.1108 MFT Version : mft 4.28.0-97</p> </div>
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<p>Test Information</p>	<p>3. Read the module's basic information from the switch side</p> <pre style="background-color: #f0f0f0; padding: 10px;"> DCS-7050SX3-48YC8-R#show interfaces ethernet 7 Ethernet7 is up, line protocol is up (connected) Hardware is Ethernet, address is 2cdd.e928.25a4 (bia 2cdd.e928.25a4) Ethernet MTU 9214 bytes, BW 10000000 kbit Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a Up 28 seconds Loopback Mode : None 6 link status changes since last clear Last clearing of "show interface" counters 12 days, 4:18:18 ago 5 minutes input rate 11 bps (0.0% with framing overhead), 0 packets/sec 5 minutes output rate 57 bps (0.0% with framing overhead), 0 packets/sec 33 packets input, 6061 bytes Received 0 broadcasts, 33 multicast 0 runs, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards 0 PAUSE input 366 packets output, 47097 bytes Sent 0 broadcasts, 366 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred, 0 output discards 0 PAUSE output </pre> <pre style="background-color: #f0f0f0; padding: 10px;"> DCS-7050SX3-48YC8-R#show interfaces ethernet 8 Ethernet8 is up, line protocol is up (connected) Hardware is Ethernet, address is 2cdd.e928.25a5 (bia 2cdd.e928.25a5) Ethernet MTU 9214 bytes, BW 10000000 kbit Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a Up 32 seconds Loopback Mode : None 6 link status changes since last clear Last clearing of "show interface" counters 12 days, 4:18:21 ago 5 minutes input rate 59 bps (0.0% with framing overhead), 0 packets/sec 5 minutes output rate 11 bps (0.0% with framing overhead), 0 packets/sec 367 packets input, 47220 bytes Received 0 broadcasts, 367 multicast 0 runs, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards 0 PAUSE input 33 packets output, 6061 bytes Sent 0 broadcasts, 33 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred, 0 output discards 0 PAUSE output </pre>
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4. Read the module's basic information from the NIC side

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[root@RS5220 fs]# ethtool -m ens4f0
Identifier                : 0x03 (SFP)
Extended identifier       : 0x04 (GBIC/SFP defined by 2-wire interface ID)
Connector                 : 0x07 (LC)
Transceiver codes         : 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x00
Transceiver type          : 10G Ethernet: 10G Base-SR
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)             : 80m
Length (62.5um)           : 30m
Length (Copper)           : 0m
Length (OM3)              : 300m
Laser wavelength         : 850nm
Vendor name               : FS
Vendor OUI                : 00:1b:21
Vendor PN                 : SFP-10GSR-85
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                 : A2120001651
Date code                 : 211123
Optical diagnostics support : Yes
Laser bias current        : 6.432 mA
Laser output power        : 0.5199 mW / -2.84 dBm
Receiver signal average optical power : 0.5446 mW / -2.64 dBm
Module temperature        : 28.75 degrees C / 83.75 degrees F
Module voltage            : 3.3315 V
Alarm/warning flags implemented : Yes
Laser bias current high alarm : Off
Laser bias current low alarm : Off
Laser bias current high warning : Off
Laser bias current low warning : Off
Laser output power high alarm : Off
Laser output power low alarm : Off
Laser output power high warning : Off
Laser output power low warning : Off
Module temperature high alarm : Off
Module temperature low alarm : Off
Module temperature high warning : Off
Module temperature low warning : Off
Module voltage high alarm : Off
Module voltage low alarm : Off
Module voltage high warning : Off
Module voltage low warning : Off
Laser rx power high alarm : Off
Laser rx power low alarm : Off
Laser rx power high warning : Off
Laser rx power low warning : Off
Laser bias current high alarm threshold : 12.000 mA
Laser bias current low alarm threshold : 1.000 mA
Laser bias current high warning threshold : 11.000 mA
Laser bias current low warning threshold : 2.000 mA
Laser output power high alarm threshold : 1.2589 mW / 1.00 dBm
Laser output power low alarm threshold : 0.1259 mW / -9.00 dBm
Laser output power high warning threshold : 0.7943 mW / -1.00 dBm
Laser output power low warning threshold : 0.1995 mW / -7.00 dBm
Module temperature high alarm threshold : 75.00 degrees C / 167.00 degrees F
Module temperature low alarm threshold : -5.00 degrees C / 23.00 degrees F
Module temperature high warning threshold : 70.00 degrees C / 158.00 degrees F
Module temperature low warning threshold : 0.00 degrees C / 32.00 degrees F
Module voltage high alarm threshold : 3.6300 V
Module voltage low alarm threshold : 2.9700 V
Module voltage high warning threshold : 3.4500 V
Module voltage low warning threshold : 3.1300 V
Laser rx power high alarm threshold : 1.2589 mW / 1.00 dBm
Laser rx power low alarm threshold : 0.0631 mW / -12.00 dBm
Laser rx power high warning threshold : 0.7943 mW / -1.00 dBm
Laser rx power low warning threshold : 0.1000 mW / -10.00 dBm
```

**Test
Information**

<p>Test Information</p>	<pre> [root@RS5220 fs]# ethtool -m ens4f1 Identifier : 0x03 (SFP) Extended identifier : 0x04 (GBIC/SFP defined by 2-wire interface ID) Connector : 0x07 (LC) Transceiver codes : 0x10 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 Transceiver type : 10G Ethernet: 10G Base-SR 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) : 80m Length (62.5um) : 30m Length (Copper) : 0m Length (OM3) : 300m Laser wavelength : 850nm Vendor name : FS Vendor OUI : 00:1b:21 Vendor PN : SFP-10GSR-85 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 : A2120001652 Date code : 211123 Optical diagnostics support : Yes Laser bias current : 6.604 mA Laser output power : 0.5157 mW / -2.88 dBm Receiver signal average optical power : 0.5682 mW / -2.45 dBm Module temperature : 29.00 degrees C / 84.20 degrees F Module voltage : 3.3290 V Alarm/warning flags implemented : Yes Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser output power high alarm : Off Laser output power low alarm : Off Laser output power high warning : Off Laser output power low warning : Off Module temperature high alarm : Off Module temperature low alarm : Off Module temperature high warning : Off Module temperature low warning : Off Module voltage high alarm : Off Module voltage low alarm : Off Module voltage high warning : Off Module voltage low warning : Off Laser rx power high alarm : Off Laser rx power low alarm : Off Laser rx power high warning : Off Laser rx power low warning : On Laser bias current high alarm threshold : 12.000 mA Laser bias current low alarm threshold : 1.000 mA Laser bias current high warning threshold : 11.000 mA Laser bias current low warning threshold : 2.000 mA Laser output power high alarm threshold : 1.2589 mW / 1.00 dBm Laser output power low alarm threshold : 0.1259 mW / -9.00 dBm Laser output power high warning threshold : 0.7943 mW / -1.00 dBm Laser output power low warning threshold : 0.1995 mW / -7.00 dBm Module temperature high alarm threshold : 75.00 degrees C / 167.00 degrees F Module temperature low alarm threshold : -5.00 degrees C / 23.00 degrees F Module temperature high warning threshold : 70.00 degrees C / 158.00 degrees F Module temperature low warning threshold : 0.00 degrees C / 32.00 degrees F Module voltage high alarm threshold : 3.6300 V Module voltage low alarm threshold : 2.9700 V Module voltage high warning threshold : 3.4500 V Module voltage low warning threshold : 3.1300 V Laser rx power high alarm threshold : 1.2589 mW / 1.00 dBm Laser rx power low alarm threshold : 0.0631 mW / -12.00 dBm Laser rx power high warning threshold : 0.7943 mW / -1.00 dBm Laser rx power low warning threshold : 0.1000 mW / -10.00 dBm </pre>
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<p style="text-align: center;">Test Information</p>	<p>5. Read the DDM information of the module</p> <p>DCS-7050SX3-48YC8-R#show interfaces ethernet 7 transceiver detail mA: milliampere, dBm: decibels (milliwatts), NA or N/A: not applicable. A2D readouts (if they differ), are reported in parentheses. The threshold values are calibrated.</p> <table border="0"> <thead> <tr> <th></th> <th>High Alarm</th> <th>High Warn</th> <th>Low Alarm</th> <th>Low Warn</th> </tr> <tr> <th>Temperature</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> </tr> <tr> <th>Port</th> <th>(Celsius)</th> <th>(Celsius)</th> <th>(Celsius)</th> <th>(Celsius)</th> </tr> </thead> <tbody> <tr> <td>Et7</td> <td>29.38</td> <td>75.00</td> <td>70.00</td> <td>-5.00 0.00</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th></th> <th>High Alarm</th> <th>High Warn</th> <th>Low Alarm</th> <th>Low Warn</th> </tr> <tr> <th>Voltage</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> </tr> <tr> <th>Port</th> <th>(Volts)</th> <th>(Volts)</th> <th>(Volts)</th> <th>(Volts)</th> </tr> </thead> <tbody> <tr> <td>Et7</td> <td>3.33</td> <td>3.63</td> <td>3.45</td> <td>2.97 3.13</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th></th> <th>High Alarm</th> <th>High Warn</th> <th>Low Alarm</th> <th>Low Warn</th> </tr> <tr> <th>Current</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> </tr> <tr> <th>Port</th> <th>(mA)</th> <th>(mA)</th> <th>(mA)</th> <th>(mA)</th> </tr> </thead> <tbody> <tr> <td>Et7</td> <td>6.50</td> <td>12.00</td> <td>11.00</td> <td>1.00 2.00</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th></th> <th>High Alarm</th> <th>High Warn</th> <th>Low Alarm</th> <th>Low Warn</th> </tr> <tr> <th>Tx Power</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> </tr> <tr> <th>Port</th> <th>(dBm)</th> <th>(dBm)</th> <th>(dBm)</th> <th>(dBm)</th> </tr> </thead> <tbody> <tr> <td>Et7</td> <td>-2.77</td> <td>1.00</td> <td>-1.00</td> <td>-9.00 -7.00</td> </tr> </tbody> </table> <table border="0"> <thead> <tr> <th></th> <th>High Alarm</th> <th>High Warn</th> <th>Low Alarm</th> <th>Low Warn</th> </tr> <tr> <th>Rx Power</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> <th>Threshold</th> </tr> <tr> <th>Port</th> <th>(dBm)</th> <th>(dBm)</th> <th>(dBm)</th> <th>(dBm)</th> </tr> </thead> <tbody> <tr> <td>Et7</td> <td>-3.51</td> <td>1.00</td> <td>-1.00</td> <td>-12.00 -10.00</td> </tr> </tbody> </table> <p>DCS-7050SX3-48YC8-R#show interfaces ethernet 8 transceiver detail mA: milliampere, dBm: decibels (milliwatts), NA or N/A: not applicable. 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Port	(dBm)	(dBm)	(dBm)	(dBm)																																																																																																																																																																																																					
Et7	-2.77	1.00	-1.00	-9.00 -7.00																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Rx Power	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(dBm)	(dBm)	(dBm)	(dBm)																																																																																																																																																																																																					
Et7	-3.51	1.00	-1.00	-12.00 -10.00																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Temperature	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(Celsius)	(Celsius)	(Celsius)	(Celsius)																																																																																																																																																																																																					
Et8	28.50	75.00	70.00	-5.00 0.00																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Voltage	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(Volts)	(Volts)	(Volts)	(Volts)																																																																																																																																																																																																					
Et8	3.33	3.63	3.45	2.97 3.13																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Current	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(mA)	(mA)	(mA)	(mA)																																																																																																																																																																																																					
Et8	6.60	12.00	11.00	1.00 2.00																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Tx Power	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(dBm)	(dBm)	(dBm)	(dBm)																																																																																																																																																																																																					
Et8	-2.85	1.00	-1.00	-9.00 -7.00																																																																																																																																																																																																					
	High Alarm	High Warn	Low Alarm	Low Warn																																																																																																																																																																																																					
Rx Power	Threshold	Threshold	Threshold	Threshold																																																																																																																																																																																																					
Port	(dBm)	(dBm)	(dBm)	(dBm)																																																																																																																																																																																																					
Et8	-2.37	1.00	-1.00	-12.00 -10.00																																																																																																																																																																																																					
<p>Test Conclusion</p>	<p>After completing the above test content, all the test information should be copied and pasted into a TXT document.</p>																																																																																																																																																																																																								
<p>Remarks</p>																																																																																																																																																																																																									