SFP-10GLR-31

TEST REPORT (Arista)

Content

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

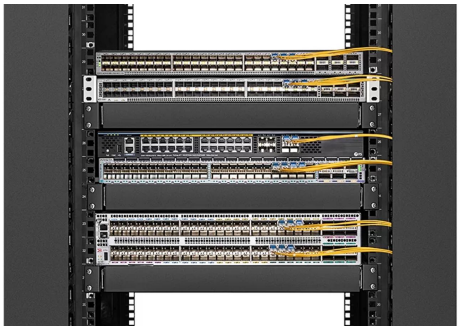
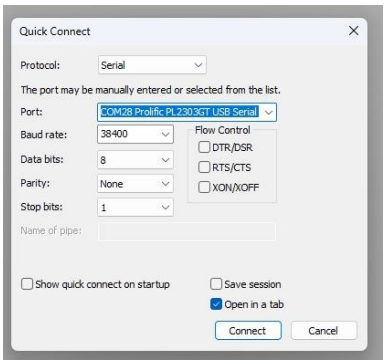
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Arista Switch	DCS-7050SX3-48YC8-R	4.23.3M	/
FS Optical Transceiver Module	SFP-10GLR-31	Arista Compatible	A1920014797 A1920014796

4. Test Data

4.1 Test Scenario

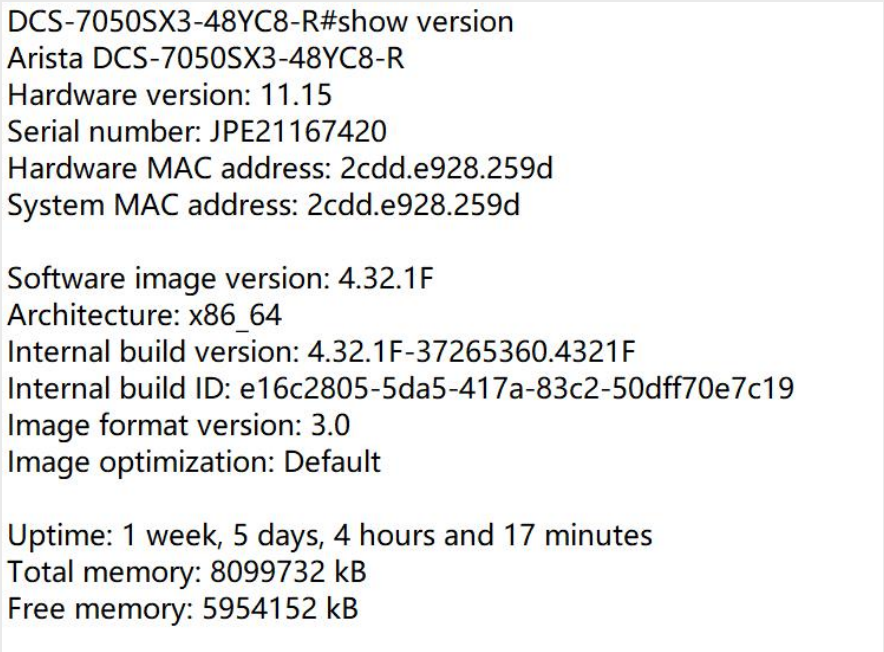
Table 4-1: Test Scenario

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, DDM 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  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

Test Information	DCS-7050SX3-48YC8-R#show interfaces status Port Name Status Vlan Duplex Speed Type Flags Encapsulation Et1 connected 1 full 10G 10GBASE-LR Et2 notconnect 1 full 10G Not Present Et3 errdisabled 1 full 100G Not Present Et4 errdisabled 1 full 100G Not Present Et5 connected 1 full 10G 10GBASE-LR Et6 notconnect 1 full 1G 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 25G Not Present Et12 notconnect 1 full 10G Not Present Et13 notconnect 1 full 10G Not Present Et14 notconnect 1 full 25G Not Present Et15 notconnect 1 full 25G Not Present Et16 notconnect 1 full 25G Not Present Et17 notconnect 1 full 25G Not Present Et18 notconnect 1 full 25G Not Present Et19 notconnect 1 full 25G Not Present Et20 notconnect 1 full 10G Not Present Et21 notconnect 1 full 25G Not Present Et22 notconnect 1 full 25G Not Present Et23 notconnect 1 full 25G Not Present Et24 notconnect 1 full 25G Not Present Et25 notconnect 1 full 25G Not Present Et26 notconnect 1 full 25G Not Present Et27 notconnect 1 full 25G Not Present Et28 notconnect 1 full 25G Not Present Et29 notconnect 1 full 25G Not Present Et30 notconnect 1 full 25G Not Present Et31 notconnect 1 full 25G Not Present Et32 notconnect 1 full 10G Not Present Et33 notconnect 1 full 10G Not Present Et34 notconnect 1 full 25G Not Present Et35 notconnect 1 full 25G Not Present Et36 notconnect 1 full 25G Not Present Et37 notconnect 1 full 25G Not Present Et38 notconnect 1 full 25G Not Present Et39 notconnect 1 full 25G Not Present Et40 notconnect 1 full 25G Not Present Et41 notconnect 1 full 25G Not Present Et42 notconnect 1 full 25G Not Present Et43 notconnect 1 full 25G Not Present Et44 notconnect 1 full 25G Not Present Et45 notconnect 1 full 25G Not Present Et46 notconnect 1 full 25G Not Present Et47 notconnect 1 full 25G Not Present Et48 notconnect 1 full 25G Not Present Et49/1 notconnect 1 full 10G Not Present Et49/2 notconnect 1 full 10G Not Present Et49/3 notconnect 1 full 10G Not Present Et49/4 notconnect 1 full 10G Not Present Et50/1 notconnect 1 full 10G Not Present Et50/2 notconnect 1 full 10G Not Present Et50/3 notconnect 1 full 10G Not Present Et50/4 notconnect 1 full 10G Not Present Et53/1 notconnect 1 full 100G Not Present Et54/1 notconnect 1 full 40G Not Present Et55/1 notconnect 1 full 100G Not Present Et56/1 notconnect 1 full 100G Not Present Ma1 notconnect routed auto auto 10/100/1000

Test Information	2. Read the module's basic information from the switch side DCS-7050SX3-48YC8-R#show interfaces ethernet 1 Ethernet1 is up, line protocol is up (connected) Hardware is Ethernet, address is 2cdd.e928.259e (bia 2cdd.e928.259e) Ethernet MTU 9214 bytes, BW 10000000 kbit Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a Up 1 minute, 38 seconds Loopback Mode : None 4 link status changes since last clear Last clearing of "show interface" counters 5:34:32 ago 5 minutes input rate 27 bps (0.0% with framing overhead), 0 packets/sec 5 minutes output rate 158 bps (0.0% with framing overhead), 0 packets/sec 32 packets input, 6015 bytes Received 0 broadcasts, 32 multicast 0 runts, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards 0 PAUSE input 385 packets output, 49434 bytes Sent 0 broadcasts, 385 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred, 0 output discards 0 PAUSE output DCS-7050SX3-48YC8-R#show interfaces ethernet 5 Ethernet5 is up, line protocol is up (connected) Hardware is Ethernet, address is 2cdd.e928.25a2 (bia 2cdd.e928.25a2) Ethernet MTU 9214 bytes, BW 10000000 kbit Full-duplex, 10Gb/s, auto negotiation: off, uni-link: n/a Up 1 minute, 47 seconds Loopback Mode : None 2 link status changes since last clear Last clearing of "show interface" counters 5:34:41 ago 5 minutes input rate 167 bps (0.0% with framing overhead), 0 packets/sec 5 minutes output rate 26 bps (0.0% with framing overhead), 0 packets/sec 58 packets input, 7519 bytes Received 0 broadcasts, 58 multicast 0 runts, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards 0 PAUSE input 7 packets output, 1246 bytes Sent 0 broadcasts, 7 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred, 0 output discards 0 PAUSE output

Test Information	3. Read the DDM information of the module DCS-7050SX3-48YC8-R# DCS-7050SX3-48YC8-R#show interfaces ethernet 1 transceiver detail mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable. A2D readouts (if they differ), are reported in parentheses. The threshold values are calibrated. High Alarm High Warn Low Alarm Low Warn Temperature Threshold Threshold Threshold Threshold Port (Celsius) (Celsius) (Celsius) (Celsius) (Celsius) ------- ---------- ---------- ---------- ---------- ---------- Et1 29.57 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) (Volts) ------- ---------- ---------- ---------- ---------- ---------- Et1 3.29 3.63 3.46 2.97 3.13 High Alarm High Warn Low Alarm Low Warn Current Threshold Threshold Threshold Threshold Port (mA) (mA) (mA) (mA) (mA) ------- ---------- ---------- ---------- ---------- ---------- Et1 32.82 80.00 75.00 10.00 15.00 High Alarm High Warn Low Alarm Low Warn Tx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et1 -2.47 2.50 0.50 -10.20 -8.20 High Alarm High Warn Low Alarm Low Warn Rx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et1 -2.23 2.50 0.50 -16.40 -14.40 DCS-7050SX3-48YC8-R# DCS-7050SX3-48YC8-R#show interfaces ethernet 5 transceiver detail mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable. A2D readouts (if they differ), are reported in parentheses. The threshold values are calibrated. High Alarm High Warn Low Alarm Low Warn Temperature Threshold Threshold Threshold Threshold Port (Celsius) (Celsius) (Celsius) (Celsius) (Celsius) ------- ---------- ---------- ---------- ---------- ---------- Et5 28.78 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) (Volts) ------- ---------- ---------- ---------- ---------- ---------- Et5 3.29 3.63 3.46 2.97 3.13 High Alarm High Warn Low Alarm Low Warn Current Threshold Threshold Threshold Threshold Port (mA) (mA) (mA) (mA) (mA) ------- ---------- ---------- ---------- ---------- ---------- Et5 31.86 80.00 75.00 10.00 15.00 High Alarm High Warn Low Alarm Low Warn Tx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et5 -2.50 2.50 0.50 -10.20 -8.20 High Alarm High Warn Low Alarm Low Warn Rx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et5 -2.10 2.50 0.50 -16.40 -14.40
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.
Remarks	