

SFP1G-SX-85

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'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
Digital Diagnostic Monitoring	Pass

3. Test Equipment Used

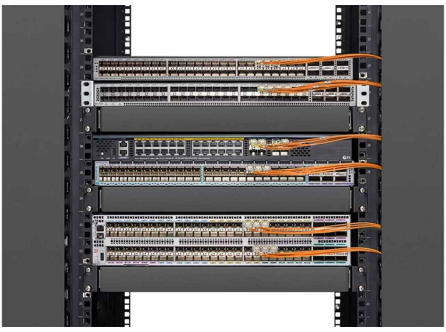
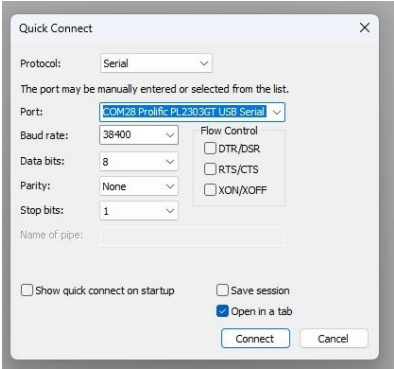
Table 3-1: Test Equipment Used

Vendor	Device	Soft Version/Compatible Brand	Serial Number
Arista Switch	DCS-7010T-48	4.26.4M	/
Intel Network Interface Card (NIC)	Intel X710-DA2	/	/
FS Optical Transceiver Module	SFP1G-SX-85	Arista Compatible	A1911002401 A1911002402
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 "IOIO" 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 optical 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.
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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 <pre> FS-DCS-7010T-48#show version Arista DCS-7010T-48 Hardware version: 01.00 Serial number: A1911002376 Hardware MAC address: 001c.73ab.470b System MAC address: 001c.73ab.470b 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: 24 minutes Total memory: 3984960 kB Free memory: 2797620 kB </pre>
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Test Information	FS-DCS-7010T-48#show interfaces status							
	Port	Name	Status	Vlan	Duplex	Speed	Type	Flags Encapsulation
	Et1		notconnect	1	auto	auto	1000BASE-T	
	Et2		notconnect	1	auto	auto	1000BASE-T	
	Et3		notconnect	1	auto	auto	1000BASE-T	
	Et4		notconnect	1	auto	auto	1000BASE-T	
	Et5		notconnect	1	auto	auto	1000BASE-T	
	Et6		notconnect	1	auto	auto	1000BASE-T	
	Et7		notconnect	1	auto	auto	1000BASE-T	
	Et8		notconnect	1	auto	auto	1000BASE-T	
	Et9		notconnect	1	auto	auto	1000BASE-T	
	Et10		notconnect	1	auto	auto	1000BASE-T	
	Et11		notconnect	1	auto	auto	1000BASE-T	
	Et12		notconnect	1	auto	auto	1000BASE-T	
	Et13		notconnect	1	auto	auto	1000BASE-T	
	Et14		notconnect	1	auto	auto	1000BASE-T	
	Et15		notconnect	1	auto	auto	1000BASE-T	
	Et16		notconnect	1	auto	auto	1000BASE-T	
	Et17		notconnect	1	auto	auto	1000BASE-T	
	Et18		notconnect	1	auto	auto	1000BASE-T	
	Et19		notconnect	1	auto	auto	1000BASE-T	
	Et20		notconnect	1	auto	auto	1000BASE-T	
	Et21		notconnect	1	auto	auto	1000BASE-T	
	Et22		notconnect	1	auto	auto	1000BASE-T	
	Et23		notconnect	1	auto	auto	1000BASE-T	
	Et24		notconnect	1	auto	auto	1000BASE-T	
	Et25		notconnect	1	auto	auto	1000BASE-T	
	Et26		notconnect	1	auto	auto	1000BASE-T	
	Et27		notconnect	1	auto	auto	1000BASE-T	
	Et28		notconnect	1	auto	auto	1000BASE-T	
	Et29		notconnect	1	auto	auto	1000BASE-T	
	Et30		notconnect	1	auto	auto	1000BASE-T	
	Et31		notconnect	1	auto	auto	1000BASE-T	
	Et32		notconnect	1	auto	auto	1000BASE-T	
	Et33		notconnect	1	auto	auto	1000BASE-T	
	Et34		notconnect	1	auto	auto	1000BASE-T	
	Et35		notconnect	1	auto	auto	1000BASE-T	
	Et36		notconnect	1	auto	auto	1000BASE-T	
	Et37		notconnect	1	auto	auto	1000BASE-T	
	Et38		notconnect	1	auto	auto	1000BASE-T	
	Et39		notconnect	1	auto	auto	1000BASE-T	
	Et40		notconnect	1	auto	auto	1000BASE-T	
	Et41		notconnect	1	auto	auto	1000BASE-T	
	Et42		notconnect	1	auto	auto	1000BASE-T	
	Et43		notconnect	1	auto	auto	1000BASE-T	
	Et44		notconnect	1	auto	auto	1000BASE-T	
	Et45		notconnect	1	auto	auto	1000BASE-T	
	Et46		notconnect	1	auto	auto	1000BASE-T	
	Et47		notconnect	1	auto	auto	1000BASE-T	
	Et48		notconnect	1	full	100M	1000BASE-T	
	Et49		connected	1	full	1G	1000BASE-SX	
	Et50		connected	1	full	1G	1000BASE-SX	
	Et51		notconnect	1	full	10G	Not Present	
	Et52		notconnect	1	full	10G	Not Present	
	Ma1		notconnect	routed	auto	auto	10/100/1000	
	Po1		notconnect	1	full	unconf	N/A	

Test Information	2. Verify the NIC port status <pre>[FS@localhost ~]\$ ethtool enp1s0f0 Settings for enp1s0f0: Supported ports: [FIBRE] Supported link modes: 1000baseX/Full Supported pause frame use: Symmetric Receive-only Supports auto-negotiation: Yes Supported FEC modes: Not reported Advertised link modes: 1000baseX/Full Advertised pause frame use: No Advertised auto-negotiation: Yes Advertised FEC modes: Not reported Speed: 1000Mb/s Duplex: Full Auto-negotiation: on Port: FIBRE PHYAD: 0 Transceiver: internal netlink error: Operation not permitted Current message level: 0x00000007 (7) drv probe link Link detected: yes [FS@localhost ~]\$ ethtool enp1s0f1 Settings for enp1s0f1: Supported ports: [FIBRE] Supported link modes: 1000baseX/Full Supported pause frame use: Symmetric Receive-only Supports auto-negotiation: Yes Supported FEC modes: Not reported Advertised link modes: 1000baseX/Full Advertised pause frame use: No Advertised auto-negotiation: Yes Advertised FEC modes: Not reported Speed: 1000Mb/s Duplex: Full Auto-negotiation: on Port: FIBRE PHYAD: 0 Transceiver: internal netlink error: Operation not permitted Current message level: 0x00000007 (7) drv probe link Link detected: yes</pre>
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Test Information	3. Read the DDM information of the module				
	FS-DCS-7010T-48#show interfaces ethernet 49 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.				
	Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
	Et49	40.17	75.00	70.00	-5.00
	Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Alarm Threshold (Volts)
	Et49	3.43	3.63	3.47	2.97
	Port	Current (mA)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Alarm Threshold (mA)
	Et49	5.30	15.00	12.00	1.00
	Port	Tx Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Alarm Threshold (dBm)
	Et49	-5.77	-2.00	-3.00	-10.50
	Port	Rx Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Alarm Threshold (dBm)
	Et49	-5.92	0.00	-1.00	-20.00
	FS-DCS-7010T-48#show interfaces ethernet 50 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.				
	Port	Temperature (Celsius)	High Alarm Threshold (Celsius)	High Warn Threshold (Celsius)	Low Alarm Threshold (Celsius)
	Et50	39.02	75.00	70.00	-5.00
	Port	Voltage (Volts)	High Alarm Threshold (Volts)	High Warn Threshold (Volts)	Low Alarm Threshold (Volts)
	Et50	3.42	3.63	3.47	2.97
	Port	Current (mA)	High Alarm Threshold (mA)	High Warn Threshold (mA)	Low Alarm Threshold (mA)
	Et50	4.88	15.00	12.00	1.00
	Port	Tx Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Alarm Threshold (dBm)
	Et50	-5.94	-2.00	-3.00	-10.50
	Port	Rx Power (dBm)	High Alarm Threshold (dBm)	High Warn Threshold (dBm)	Low Alarm Threshold (dBm)
	Et50	-5.40	0.00	-1.00	-20.00
	Et50	-19.00			
Test Conclusion	After completing the above test content, all the test information should be copied and pasted into a TXT document.				
Remarks					