



OPTICAL TRANSCEIVER TEST REPORT

Tested by: Doubt.Zheng | Date: 2022.06.03

1. Test Purpose

Test objects: QSFP-40G-A10, Through the corresponding tests, the test parameters conform to the relevant industry standards, and the test transceivers can be used normally in Extreme brand equipment, laying the foundation for the subsequent cooperation with customers.

2. Test items

Test items		Test details
Compatibility Testing	Connectivity testing	The transceiver can connect both ends of the device normally, and the device port status is up.
	Parameter testing	The transceiver PN, VN, SN, and DDM information read by the device is consistent with the module tag description.

3. Test environment

3.1. Test samples

Vendor Name	Part Number	Serial Number	Transceiver Description
NADDOD	QSFP-40G-A10	ACS22060700710	10m 40G QSFP+ Active Optical Cable

3.2. Test equipment

Equipment Brand	Equipment Model	Software version (running)
Cisco	Cisco Nexus N9K-C93180YC-EX	NXOS: version 9.2(3)

4. Test data

4.1. Connectivity testing

Test Method	1. check whether the device status is normal.; 2. Check whether the port device port LED is green; (individual brand port LED is yellow or white) 3. check whether the device port is normally linked up; 4. Check whether the device port rate is up to standard.
Test Data	<pre> switch# show inventory NAME: "Chassis", DESCR: "Nexus9000 93180YC-EX chassis" PID: N9K-C93180YC-EX , VID: V01 , SN: FDO21192HKE NAME: "Slot 1", DESCR: "48x10/25G + 6x40/100G Ethernet Module" PID: N9K-C93180YC-EX , VID: V01 , SN: FDO21192HKE NAME: "Power Supply 1", DESCR: "Nexus9000 93180YC-EX chassis Power Supply" PID: NXA-PAC-650W-PE , VID: V02 , SN: LIT21182CKL NAME: "Power Supply 2", DESCR: "Nexus9000 93180YC-EX chassis Power Supply" PID: NXA-PAC-650W-PE , VID: V02 , SN: LIT21182G55 NAME: "Fan 1", DESCR: "Nexus9000 93180YC-EX chassis Fan Module" PID: NXA-FAN-30CFM-F , VID: V01 , SN: N/A NAME: "Fan 2", DESCR: "Nexus9000 93180YC-EX chassis Fan Module" PID: NXA-FAN-30CFM-F , VID: V01 , SN: N/A NAME: "Fan 3", DESCR: "Nexus9000 93180YC-EX chassis Fan Module" PID: NXA-FAN-30CFM-F , VID: V01 , SN: N/A NAME: "Fan 4", DESCR: "Nexus9000 93180YC-EX chassis Fan Module" PID: NXA-FAN-30CFM-F , VID: V01 , SN: N/A switch# show interface status ----- - Port Name Status Vlan Duplex Speed Type ----- - mgmt0 -- notconnec routed auto auto -- ----- - Port Name Status Vlan Duplex Speed Type ----- - Eth1/1 -- xcvrAbsen routed auto auto -- Eth1/2 -- xcvrAbsen routed auto auto -- </pre>

Eth1/3	--	xcvrAbsen routed	auto	auto	--
Eth1/4	--	xcvrAbsen routed	auto	auto	--
Eth1/5	--	xcvrAbsen routed	auto	auto	--
Eth1/6	--	xcvrAbsen routed	auto	auto	--
Eth1/7	--	xcvrAbsen routed	auto	auto	--
Eth1/8	--	xcvrAbsen routed	auto	auto	--
Eth1/9	--	xcvrAbsen routed	auto	auto	--
Eth1/10	--	xcvrAbsen routed	auto	auto	--
Eth1/11	--	xcvrAbsen routed	auto	auto	--
Eth1/12	--	xcvrAbsen routed	auto	auto	--
Eth1/13	--	xcvrAbsen routed	auto	auto	--
Eth1/14	--	xcvrAbsen routed	auto	auto	--
Eth1/15	--	xcvrAbsen routed	auto	auto	--
Eth1/16	--	xcvrAbsen routed	auto	auto	--
Eth1/17	--	xcvrAbsen routed	auto	auto	--
Eth1/18	--	xcvrAbsen routed	auto	auto	--
Eth1/19	--	xcvrAbsen routed	auto	auto	--
Eth1/20	--	xcvrAbsen routed	auto	auto	--
Eth1/21	--	xcvrAbsen routed	auto	auto	--
Eth1/22	--	xcvrAbsen routed	auto	auto	--
Eth1/23	--	xcvrAbsen routed	auto	auto	--
Eth1/24	--	xcvrAbsen routed	auto	auto	--
Eth1/25	--	xcvrAbsen routed	auto	auto	--
Eth1/26	--	xcvrAbsen routed	auto	auto	--
Eth1/27	--	xcvrAbsen routed	auto	auto	--
Eth1/28	--	xcvrAbsen routed	auto	auto	--
Eth1/29	--	xcvrAbsen routed	auto	auto	--
Eth1/30	--	xcvrAbsen routed	auto	auto	--
Eth1/31	--	xcvrAbsen routed	auto	auto	--
Eth1/32	--	xcvrAbsen routed	auto	auto	--
Eth1/33	--	xcvrAbsen routed	auto	auto	--
Eth1/34	--	xcvrAbsen routed	auto	auto	--
Eth1/35	--	xcvrAbsen routed	auto	auto	--
Eth1/36	--	xcvrAbsen routed	auto	auto	--
Eth1/37	--	xcvrAbsen routed	auto	auto	--
Eth1/38	--	xcvrAbsen routed	auto	auto	--
Eth1/39	--	xcvrAbsen routed	auto	auto	--
Eth1/40	--	xcvrAbsen routed	auto	auto	--
Eth1/41	--	xcvrAbsen routed	auto	auto	--
Eth1/42	--	xcvrAbsen routed	auto	auto	--
Eth1/43	--	xcvrAbsen routed	auto	auto	--
Eth1/44	--	xcvrAbsen routed	auto	auto	--
Eth1/45	--	xcvrAbsen routed	auto	auto	--
Eth1/46	--	xcvrAbsen routed	auto	auto	--
Eth1/47	--	xcvrAbsen routed	auto	auto	--

	Eth1/48	--	xcvrAbsen routed	auto	auto	--
	Eth1/49	--	xcvrAbsen routed	auto	auto	--
	Eth1/50	--	connected routed	full	40G	QSFP-H40G-A
	OC10M					
	Eth1/51	--	xcvrAbsen routed	auto	auto	--
	Eth1/52	--	xcvrAbsen routed	auto	auto	--
	Eth1/53	--	xcvrAbsen routed	auto	auto	--
	Eth1/54	--	connected routed	full	40G	QSFP-H40G-A
	OC10M					
Test Situation	QSFP-40G-A10					
	Port Number		Eth1/50		Eth1/54	
	Port Status		connected		connected	
	Port Link Rate		40G		40G	
Test Conclusion	After testing, the above transceivers are normally connected on Cisco Nexus N9K-C93180YC-EX, the device port LEDs at both ends are always on green Light,the link is linkup.					
Remarks						

4.2. Parameter Testing

Test Method	- check whether the basic information such as module manufacturer name, model name and serial number is correct. - check whether the module transmission distance, wavelength, type and other key parameters are correct. - check whether the module DDM parameters have exceeded the threshold value.
Test Data	<pre> switch# show interface eth1/50 transceiver details Ethernet1/50 transceiver is present type is QSFP-H40G-AOC10M name is NADDOD part number is QSFP-40G-A10 revision is D serial number is ACS22060700710 nominal bitrate is 10300 MBit/sec per channel cisco id is 13 cisco extended id number is 16 </pre>

	DOM is not supported <pre>switch# show interface eth1/54 transceiver details Ethernet1/54 transceiver is present type is QSFP-H40G-AOC10M name is NADDOD part number is QSFP-40G-A10 revision is D serial number is ACS22060700710 nominal bitrate is 10300 MBit/sec per channel cisco id is 13 cisco extended id number is 16</pre> DOM is not supported		
Test situation	QSFP-40G-A10		
	Vendor	NADDOD	NADDOD
	Part Number	QSFP-40G-A10	QSFP-40G-A10
	Serial Number	ACS22060700710	ACS22060700710
	Wavelength	/	/
	Link Length	10m	10m
	Transceiver Type	QSFP-H40G-AOC10M	QSFP-H40G-AOC10M
Test Conclusion	After testing, the above Fiber Optic Cable on Cisco Nexus N9K-C93180YC-EX vendor name, part number, serial number DDM and other information is normally identified, the Fiber Optic Cable operates normally.		
Remarks	Cisco Nexus switch can't read fiber optic wavelengths.		

5. Appendix

5.1 Transceiver compatibility testing standards

On the basis of the threshold range, the allowed deviation value should be within the standard range specified by the industry protocol.

Content	Details	Standard
Basic Information	Part Number	The part number read by the device is the same as the Part Number on

		the label. (If there are special requirements, the actual information shall prevail)
	Serial Number	The serial number read by the device is the same as the serial number on the label.(If there is special requirement, the actual information shall prevail).
	Vendor	The vendor name information read is NADDOD.(If there are special requirements, the actual information shall prevail).
	Transceiver Type	Transceiver information read by the device is consistent with that specified on the actual optics protocol specification (SFF-8636/SFF-8024).
	Wavelength	Transceiver wavelength information read by the device is consistent with the module description.
	Link Length	Transceiver maximum transmission distance information read by the device is consistent with the module description.
DDM Information	Temp	1. The actual DDM information is within the DDM threshold and there are no alarms. 2. The DDM threshold range is in accordance with the module specification.
	Voltage	
	Tx Bias Current	
	Tx Power	
	Rx Power	
Port Information	Port Rate	The data rate information read on the switch port corresponds to the actual rate of the optics.
	Port Status	When the transceiver is connected, the port status information is UP.
	Switch Port LED Status	The port indicators on both ends of the transceiver will be green when the transceiver is connected.
	Port Count	No packet loss, no error code, no CRC, no other ERROR packets.
Device Log		The device does not have any transceiver warning message.

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