

OPTICAL TRANSCEIVER TEST REPORT

Tested by: Doubt.Zheng | Date: 2022.06.03



1. Test Purpose

Test objects: SFP-1G-CW10-1470, 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	Connectivity testing	The transceiver can connect both ends of the device normally, and the device port status is up.
Testing	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	SFP-1G-CW10-1470	ACS22060700480	1000BASE-CWDM SFP 1270~1610nm 10km DOM LC SMF Transceiver Module
NADDOD	SFP-1G-CW10-1470	ACS22060700481	1000BASE-CWDM SFP 1270~1610nm 10km DOM LC SMF Transceiver Module

3.2. Test equipment

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

4. Test data

4.1. Connectivity testing

Toot	1.	check whether the device status is normal.;
Test Method	2.	Check whether the port device port LED is green; (individual brand port LED is yellow or white)
Method	3.	check whether the device port is normally linked up;



	4. Check whether the device port rate is up to standard.					
	switch# sh inv NAME: "Chassis", DESCR: "Nexus9000 93180YC-EX chassis"					
	PID: N9K-C93180YC-EX , VID: V01 , SN: FD021192HKE					
	NAME: "Slot 1", DESCR: "48x10/25G + 6x40/100G Ethernet Module"					
	PID: N9K-C93180YC-EX , VID: V01 , SN: FD021192HKE					
	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"					
Test Data	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					
	Eth1/18 xcvrAbsen routed auto auto					
	Eth1/19 connected routed full 1000 CWDM-1470					



	Equipment model	N9K-C93180YC-EX			
Test	Port Number	Eth1/19	Eth1/20		
Situation	Port Status	connected	connected		
	Port Link Rate	1000	1000		
Test	After testing, the above transceivers are normally connected on N9K-C93180YC-EX, the device port LEDs at both				
Conclusion	ends are always on white, the link is linkup.				
Remarks					

4.2. Parameter Testing

Test	1. check whether the basic information such as module manufacturer name, model name and serial number is correct.						
Method	2. check whet	her the module t	ransmission	distance, wav	elength, type a	nd other key paramet	ers are correct.
	3. check whet	her the module [DDM paramet	ters have exce	eded the thres	hold value.	
	switch# show int	erface eth1/19 tr	ansceiver det	ails			
	Ethernet1/19						
	transceiver i	s present					
	type is CWD	M-1470					
	name is NA[DDOD					
	part number	is SFP-1G-CW1	0-1470				
	revision is A						
	serial numb	er is ACS2206070	00480				
	nominal bitr	ate is 1300 MBit/	sec				
	Link length s	supported for 9/1	25um fiber is	10 km			
	cisco id is 3						
	cisco extended id number is 4						
Test Data							
		Detail Diagnosti					
			Aları		Warr		
		Measurement	Ü		Ü	Low	
		37.42 C					
	Voltage	3.15 V	3.59 V	3.00 V	3.50 V	3.09 V	
	Current	18.52 mA	90.00 mA	1.00 mA	85.00 mA	2.00 mA	
	Tx Power	-6.32 dBm	-1.99 dBm	-10.00 dBm	-3.00 dBm	-9.03 dBm	
	Rx Power	-6.75 dBm	-1.99 dBm	-26.98 dBm	-3.00 dBm	-25.22 dBm	
	Transmit Fault	Count = 0					



Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning switch# show interface eth1/20 transceiver details Ethernet1/20 transceiver is present type is CWDM-1470 name is NADDOD part number is SFP-1G-CW10-1470 revision is A serial number is ACS22060700481 nominal bitrate is 1300 MBit/sec Link length supported for 9/125um fiber is 10 km cisco id is 3 cisco extended id number is 4 SFP Detail Diagnostics Information (internal calibration) _____ Alarms Current Warnings Measurement High Low High -----Temperature 37.36 C 90.00 C -45.00 C 85.00 C -40.00 C Voltage 3.27 V 3.59 V 3.00 V 3.50 V 3.09 V 90.00 mA 1.00 mA 85.00 mA Current 18.68 mA 2.00 mA Tx Power -6.49 dBm -1.99 dBm -10.00 dBm -3.00 dBm -9.03 dBm Rx Power -6.88 dBm -1.99 dBm -26.98 dBm -3.00 dBm -25.22 dBm Transmit Fault Count = 0 -----Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning SFP-1G-CW10-1470 Vendor NADDOD NADDOD Part Number SFP-1G-CW10-1470 SFP-1G-CW10-1470 Serial Number ACS22060700480 ACS22060700481 Test situation Wavelength 1470nm 1470nm Link Length 10km 10km Transceiver Type CWDM-1470 CWDM-1470 DDM Alarm NO NO



	DDM-Temp	37.42℃	37.36℃
	DDM-Voltage	3.15V	3.27V
DDM-Tx Bias Current		18.52mA	18.68mA
	DDM-Tx Power	-6.32dBm	-6.49dBm
	DDM-Rx Power	-6.75dBm	-6.88dBm
Test Conclusion	After testing, the above Transceiver on N9K-C93180YC-EX vendor name, part number, serial number, DDM and other information is normally identified, the five DDM parameters do not exceed the level I and II thresholds, and the Transceiver operates normally.		
Remarks	\		

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	
	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).	
Basic Information	Transceiver Type	Transceiver information read by the device is consistent with that specified o 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.	
	Temp		
	Voltage	1. The actual DDM information is within the DDM threshold and there are no	
DDM Information	Tx Bias Current	alarms.	
	Tx Power	2. The DDM threshold range is in accordance with the module specification.	
	Rx Power		



	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.
Port Information	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.



Further Information:

Web www.naddod.com

Email For order requirements: sales@naddod.com For cooperation: agency@naddod.com

For customer service: support@naddod.com For other informations: info@naddod.com

For technical support: tech@naddod.com

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