



# OPTICAL TRANSCEIVER TEST REPORT

Tested by: Betty | Date: 2022.10.10

## 1. Test Purpose

Test objects: Q4SFP-100G-CU1, through the corresponding tests, the test parameters conform to the relevant industry standards, and the test transceivers can be used normally in Cisco 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	Q4SFP-100G-CU1	ACS22060700620	1m (3ft) 100G QSFP28 to 4X25G SFP28 Passive Direct Attach Copper Breakout Cable

### 3.2. Test equipment

Equipment Brand	Equipment Model	Software version (running)
Cisco	Cisco N9K-C9318OYC-EX	BIOS: version 07.59 NXOS: version 9.2(3)

## 4. Test data

#### 4.1. Connectivity testing

<p>Test Method</p>	<ol style="list-style-type: none"> <li>1. Check whether the device status is normal;</li> <li>2. Check whether the port device port LED is green; (individual brand port LED is yellow or white)</li> <li>3. Check whether the device port is normally linked up;</li> <li>4. Check whether the device port rate is up to standard.</li> </ol>
<p>Test Data</p>	<pre> N9K-C93180YC-EX# show inventory switch# show inventory NAME: "Chassis", DESCR: "Nexus9000 93180YC-EX chassis" PID: N9K-C93180YC-EX , VID: V01 , SN: FDO21192HKE  NAME: "Slot 1", DESCR: "4x10/25G + 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  N9K-C93180YC-EX(config)# show interface status  ----- ----- Port          Name                Status   Vlan    Duplex  Speed  Type ----- ----- mgmt0         --                  notconnec routed  auto   auto   -- ----- ----- </pre>

Port	Name	Status	Vlan	Duplex	Speed	Type
Eth1/1	--	xcvrAbsen	routed	auto	auto	--
Eth1/2	--	xcvrAbsen	routed	auto	auto	--
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	--	connected	routed	full	25G	SFP-H25GB-C
	U1M						
	Eth1/44	--	connected	routed	full	25G	SFP-H25GB-C
	U1M						
	Eth1/45	--	connected	routed	full	25G	SFP-H25GB-C
	U1M						
	Eth1/46	--	connected	routed	full	25G	SFP-H25GB-C
	U1M						
	Eth1/47	--	xcvrAbsen	routed	auto	auto	--
	Eth1/48	--	xcvrAbsen	routed	auto	auto	--
	Eth1/49	--	xcvrAbsen	routed	auto	auto	--
	Eth1/50	--	xcvrAbsen	routed	auto	auto	--
	Eth1/51	--	xcvrAbsen	routed	auto	auto	--
	Eth1/52/1	--	xcvrAbsen	routed	auto	auto	--
	Eth1/52/2	--	xcvrAbsen	routed	auto	auto	--
	Eth1/52/3	--	xcvrAbsen	routed	auto	auto	--
	Eth1/52/4	--	xcvrAbsen	routed	auto	auto	--
	Eth1/53/1	--	connected	routed	full	25G	QSFP-100G-C
	R4						
	Eth1/53/2	--	connected	routed	full	25G	QSFP-100G-C
	R4						
	Eth1/53/3	--	connected	routed	full	25G	QSFP-100G-C
	R4						
	Eth1/53/4	--	connected	routed	full	25G	QSFP-100G-C
	R4						
	Eth1/54/1	--	xcvrAbsen	routed	auto	auto	--
	Eth1/54/2	--	xcvrAbsen	routed	auto	auto	--
	Eth1/54/3	--	xcvrAbsen	routed	auto	auto	--
	Eth1/54/4	--	xcvrAbsen	routed	auto	auto	--
	Vlan1	--	down	routed	auto	auto	--
Test Situation	Q4SFP-100G-CU1						
	Port Number		Port 53	Port 43	Port 44	Port 45	Port 46
	Port Status		active	active	active	active	active
	Port Link Rate		100G	25G	25G	25G	25G
Test Conclusion	After testing, the above transceivers are normally connected on Cisco N9K-C9318OYC-EX, the device port LEDs at both ends are always on green, the link is link up.						
Remarks							

## 4.2. Parameter Testing

<p>Test Method</p>	<ol style="list-style-type: none"> <li>1. check whether the basic information such as module manufacturer name, model name and serial number is correct.</li> <li>2. check whether the module transmission distance, wavelength, type and other key parameters are correct.</li> <li>3. check whether the module DDM parameters have exceeded the threshold value.</li> </ol>
<p>Test Data</p>	<pre> Port : 43-46  switch# show interface eth1/43-46 Ethernet1/43 is up admin state is up, Dedicated Interface   Hardware: 100/1000/10000/25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e582)   MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec   reliability 255/255, txload 1/255, rxload 1/255   Encapsulation ARPA, medium is broadcast   full-duplex, 25 Gb/s, media type is 25G   Beacon is turned off   Auto-Negotiation is turned off FEC mode is Auto   Input flow-control is off, output flow-control is off   Auto-mdix is turned off   Rate mode is dedicated   Switchport monitor is off   EtherType is 0x8100   EEE (efficient-ethernet) : n/a     admin fec state is auto, oper fec state is Fc-fec   Last link flapped 00:01:44   Last clearing of "show interface" counters never   3 interface resets   Load-Interval #1: 30 seconds     30 seconds input rate 0 bits/sec, 0 packets/sec     30 seconds output rate 0 bits/sec, 0 packets/sec     input rate 0 bps, 0 pps; output rate 0 bps, 0 pps   Load-Interval #2: 5 minute (300 seconds)     300 seconds input rate 16 bits/sec, 0 packets/sec     300 seconds output rate 16 bits/sec, 0 packets/sec     input rate 16 bps, 0 pps; output rate 16 bps, 0 pps RX   4 unicast packets  20 multicast packets  0 broadcast packets   23 input packets  7487 bytes   0 jumbo packets  0 storm suppression bytes           </pre>

0 runs 0 giants 0 CRC 0 no buffer  
 0 input error 0 short frame 0 overrun 0 underrun 0 ignored  
 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop  
 0 input with dribble 0 input discard  
 0 Rx pause

#### TX

4 unicast packets 20 multicast packets 0 broadcast packets  
 23 output packets 7449 bytes  
 0 jumbo packets  
 0 output error 0 collision 0 deferred 0 late collision  
 0 lost carrier 0 no carrier 0 babble 0 output discard  
 0 Tx pause

Ethernet1/44 is up

admin state is up, Dedicated Interface

Hardware: 100/1000/10000/25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e583)

MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec  
 reliability 255/255, txload 1/255, rxload 1/255

Encapsulation ARPA, medium is broadcast

full-duplex, 25 Gb/s, media type is 25G

Beacon is turned off

Auto-Negotiation is turned off FEC mode is Auto

Input flow-control is off, output flow-control is off

Auto-mdix is turned off

Rate mode is dedicated

Switchport monitor is off

EtherType is 0x8100

EEE (efficient-ethernet) : n/a

admin fec state is auto, oper fec state is Fc-fec

Last link flapped 00:01:52

Last clearing of "show interface" counters never

3 interface resets

Load-Interval #1: 30 seconds

30 seconds input rate 0 bits/sec, 0 packets/sec

30 seconds output rate 0 bits/sec, 0 packets/sec

input rate 0 bps, 0 pps; output rate 0 bps, 0 pps

Load-Interval #2: 5 minute (300 seconds)

300 seconds input rate 16 bits/sec, 0 packets/sec

300 seconds output rate 16 bits/sec, 0 packets/sec

input rate 16 bps, 0 pps; output rate 16 bps, 0 pps

#### RX

4 unicast packets 24 multicast packets 0 broadcast packets  
 28 input packets 8812 bytes  
 0 jumbo packets 0 storm suppression bytes

0 runs 0 giants 0 CRC 0 no buffer  
 0 input error 0 short frame 0 overrun 0 underrun 0 ignored  
 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop  
 0 input with dribble 0 input discard  
 0 Rx pause

#### TX

4 unicast packets 24 multicast packets 0 broadcast packets  
 28 output packets 8764 bytes  
 0 jumbo packets  
 0 output error 0 collision 0 deferred 0 late collision  
 0 lost carrier 0 no carrier 0 babble 0 output discard  
 0 Tx pause

Ethernet1/45 is up

admin state is up, Dedicated Interface

Hardware: 100/1000/10000/25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e584)

MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec  
 reliability 255/255, txload 1/255, rxload 1/255

Encapsulation ARPA, medium is broadcast

full-duplex, 25 Gb/s, media type is 25G

Beacon is turned off

Auto-Negotiation is turned off FEC mode is Auto

Input flow-control is off, output flow-control is off

Auto-mdix is turned off

Rate mode is dedicated

Switchport monitor is off

EtherType is 0x8100

EEE (efficient-ethernet) : n/a

admin fec state is auto, oper fec state is Fc-fec

Last link flapped 00:01:44

Last clearing of "show interface" counters never

3 interface resets

Load-Interval #1: 30 seconds

30 seconds input rate 0 bits/sec, 0 packets/sec

30 seconds output rate 0 bits/sec, 0 packets/sec

input rate 0 bps, 0 pps; output rate 0 bps, 0 pps

Load-Interval #2: 5 minute (300 seconds)

300 seconds input rate 16 bits/sec, 0 packets/sec

300 seconds output rate 16 bits/sec, 0 packets/sec

input rate 16 bps, 0 pps; output rate 16 bps, 0 pps

#### RX

4 unicast packets 20 multicast packets 0 broadcast packets  
 24 input packets 7752 bytes  
 0 jumbo packets 0 storm suppression bytes



0 runs 0 giants 0 CRC 0 no buffer  
 0 input error 0 short frame 0 overrun 0 underrun 0 ignored  
 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop  
 0 input with dribble 0 input discard  
 0 Rx pause

#### TX

4 unicast packets 19 multicast packets 0 broadcast packets  
 23 output packets 7449 bytes  
 0 jumbo packets  
 0 output error 0 collision 0 deferred 0 late collision  
 0 lost carrier 0 no carrier 0 babble 0 output discard  
 0 Tx pause

Ethernet1/46 is up

admin state is up, Dedicated Interface

Hardware: 100/1000/10000/25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e585)

MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec

reliability 255/255, txload 1/255, rxload 1/255

Encapsulation ARPA, medium is broadcast

full-duplex, 25 Gb/s, media type is 25G

Beacon is turned off

Auto-Negotiation is turned off FEC mode is Auto

Input flow-control is off, output flow-control is off

Auto-mdix is turned off

Rate mode is dedicated

Switchport monitor is off

EtherType is 0x8100

EEE (efficient-ethernet) : n/a

admin fec state is auto, oper fec state is Fc-fec

Last link flapped 00:01:53

Last clearing of "show interface" counters never

3 interface resets

Load-Interval #1: 30 seconds

30 seconds input rate 0 bits/sec, 0 packets/sec

30 seconds output rate 0 bits/sec, 0 packets/sec

input rate 0 bps, 0 pps; output rate 0 bps, 0 pps

Load-Interval #2: 5 minute (300 seconds)

300 seconds input rate 16 bits/sec, 0 packets/sec

300 seconds output rate 16 bits/sec, 0 packets/sec

input rate 16 bps, 0 pps; output rate 16 bps, 0 pps

#### RX

0 unicast packets 24 multicast packets 0 broadcast packets

24 input packets 6360 bytes

0 jumbo packets 0 storm suppression bytes

O runts O giants O CRC O no buffer  
 O input error O short frame O overrun O underrun O ignored  
 O watchdog O bad etype drop O bad proto drop O if down drop  
 O input with dribble O input discard  
 O Rx pause

TX

O unicast packets 24 multicast packets O broadcast packets  
 24 output packets 6312 bytes  
 O jumbo packets  
 O output error O collision O deferred O late collision  
 O lost carrier O no carrier O babble O output discard  
 O Tx pause

switch# show interface eth1/43-46 TRAnsceiver DETails

Ethernet1/43

transceiver is present  
 type is SFP-H25GB-CU1M  
 name is NADDOD  
 part number is Q4SFP-100G-CU1  
 revision is 01  
 serial number is ACS22060700620-1  
 nominal bitrate is 25500 MBit/sec  
 Link length supported for copper is 1 m  
 cable type is CA-S  
 cisco id is 3  
 cisco extended id number is 4

DOM is not supported

Ethernet1/44

transceiver is present  
 type is SFP-H25GB-CU1M  
 name is NADDOD  
 part number is Q4SFP-100G-CU1  
 revision is 01  
 serial number is ACS22060700620-2  
 nominal bitrate is 25500 MBit/sec  
 Link length supported for copper is 1 m  
 cable type is CA-S  
 cisco id is 3  
 cisco extended id number is 4

DOM is not supported

Ethernet1/45

transceiver is present  
 type is SFP-H25GB-CU1M  
 name is NADDOD  
 part number is Q4SFP-100G-CU1  
 revision is 01  
 serial number is ACS22060700620-3  
 nominal bitrate is 25500 MBit/sec  
 Link length supported for copper is 1 m  
 cable type is CA-S  
 cisco id is 3  
 cisco extended id number is 4

DOM is not supported

Ethernet1/46

transceiver is present  
 type is SFP-H25GB-CU1M  
 name is NADDOD  
 part number is Q4SFP-100G-CU1  
 revision is 01  
 serial number is ACS22060700620-4  
 nominal bitrate is 25500 MBit/sec  
 Link length supported for copper is 1 m  
 cable type is CA-S  
 cisco id is 3  
 cisco extended id number is 4

DOM is not supported

Port : 53/1-4

switch# SHOW INTERface ETH 1/53/1-4

Ethernet1/53/1 is up  
 admin state is up, Dedicated Interface  
 Hardware: 25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e598)  
 MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec  
 reliability 255/255, txload 1/255, rxload 1/255  
 Encapsulation ARPA, medium is broadcast  
 full-duplex, 25 Gb/s, media type is 100G  
 Beacon is turned off  
 Auto-Negotiation is turned off FEC mode is Auto  
 Input flow-control is off, output flow-control is off

```

Auto-mdix is turned off
Rate mode is dedicated
Switchport monitor is off
EtherType is 0x8100
EEE (efficient-ethernet) : n/a
  admin fec state is auto, oper fec state is Fc-fec
Last link flapped 00:03:46
Last clearing of "show interface" counters never
1 interface resets
Load-Interval #1: 30 seconds
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
  input rate 0 bps, 0 pps; output rate 0 bps, 0 pps
Load-Interval #2: 5 minute (300 seconds)
  300 seconds input rate 16 bits/sec, 0 packets/sec
  300 seconds output rate 16 bits/sec, 0 packets/sec
  input rate 16 bps, 0 pps; output rate 16 bps, 0 pps
RX
  0 unicast packets  99 multicast packets  0 broadcast packets
  99 input packets  26037 bytes
  0 jumbo packets  0 storm suppression bytes
  0 runts  0 giants  0 CRC  0 no buffer
  0 input error  0 short frame  0 overrun  0 underrun  0 ignored
  0 watchdog  0 bad etype drop  0 bad proto drop  0 if down drop
  0 input with dribble  0 input discard
  0 Rx pause
TX
  0 unicast packets  98 multicast packets  0 broadcast packets
  98 output packets  25786 bytes
  0 jumbo packets
  0 output error  0 collision  0 deferred  0 late collision
  0 lost carrier  0 no carrier  0 babble  0 output discard
  0 Tx pause

Ethernet1/53/2 is up
admin state is up, Dedicated Interface
Hardware: 25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e599)
MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, medium is broadcast
full-duplex, 25 Gb/s, media type is 100G
Beacon is turned off
Auto-Negotiation is turned off  FEC mode is Auto
Input flow-control is off, output flow-control is off
Auto-mdix is turned off

```

```

Rate mode is dedicated
Switchport monitor is off
EtherType is 0x8100
EEE (efficient-ethernet) : n/a
  admin fec state is auto, oper fec state is Fc-fec
Last link flapped 00:03:46
Last clearing of "show interface" counters never
1 interface resets
Load-Interval #1: 30 seconds
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
  input rate 0 bps, 0 pps; output rate 0 bps, 0 pps
Load-Interval #2: 5 minute (300 seconds)
  300 seconds input rate 16 bits/sec, 0 packets/sec
  300 seconds output rate 16 bits/sec, 0 packets/sec
  input rate 16 bps, 0 pps; output rate 16 bps, 0 pps
RX
  0 unicast packets  6 multicast packets  0 broadcast packets
  6 input packets  1578 bytes
  0 jumbo packets  0 storm suppression bytes
  0 runts  0 giants  0 CRC  0 no buffer
  0 input error  0 short frame  0 overrun  0 underrun  0 ignored
  0 watchdog  0 bad etype drop  0 bad proto drop  0 if down drop
  0 input with dribble  0 input discard
  0 Rx pause
TX
  0 unicast packets  6 multicast packets  0 broadcast packets
  6 output packets  1590 bytes
  0 jumbo packets
  0 output error  0 collision  0 deferred  0 late collision
  0 lost carrier  0 no carrier  0 babble  0 output discard
  0 Tx pause

Ethernet1/53/3 is up
admin state is up, Dedicated Interface
Hardware: 25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e59a)
MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, medium is broadcast
full-duplex, 25 Gb/s, media type is 100G
Beacon is turned off
Auto-Negotiation is turned off  FEC mode is Auto
Input flow-control is off, output flow-control is off
Auto-mdix is turned off
Rate mode is dedicated

```

```

Switchport monitor is off
EtherType is 0x8100
EEE (efficient-ethernet) : n/a
  admin fec state is auto, oper fec state is Fc-fec
Last link flapped 00:03:55
Last clearing of "show interface" counters never
1 interface resets
Load-Interval #1: 30 seconds
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
  input rate 0 bps, 0 pps; output rate 0 bps, 0 pps
Load-Interval #2: 5 minute (300 seconds)
  300 seconds input rate 16 bits/sec, 0 packets/sec
  300 seconds output rate 16 bits/sec, 0 packets/sec
  input rate 16 bps, 0 pps; output rate 16 bps, 0 pps
RX
  0 unicast packets  99 multicast packets  0 broadcast packets
  99 input packets  26037 bytes
  0 jumbo packets  0 storm suppression bytes
  0 runts  0 giants  0 CRC  0 no buffer
  0 input error  0 short frame  0 overrun  0 underrun  0 ignored
  0 watchdog  0 bad etype drop  0 bad proto drop  0 if down drop
  0 input with dribble  0 input discard
  0 Rx pause
TX
  0 unicast packets  98 multicast packets  0 broadcast packets
  98 output packets  25786 bytes
  0 jumbo packets
  0 output error  0 collision  0 deferred  0 late collision
  0 lost carrier  0 no carrier  0 babble  0 output discard
  0 Tx pause

Ethernet1/53/4 is up
admin state is up, Dedicated Interface
Hardware: 25000 Ethernet, address: 70df.2f96.e557 (bia 70df.2f96.e59b)
MTU 1500 bytes, BW 25000000 Kbit, DLY 10 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, medium is broadcast
full-duplex, 25 Gb/s, media type is 100G
Beacon is turned off
Auto-Negotiation is turned off FEC mode is Auto
Input flow-control is off, output flow-control is off
Auto-mdix is turned off
Rate mode is dedicated
Switchport monitor is off

```

```

EtherType is 0x8100
EEE (efficient-ethernet) : n/a
  admin fec state is auto, oper fec state is Fc-fec
Last link flapped 00:03:54
Last clearing of "show interface" counters never
1 interface resets
Load-Interval #1: 30 seconds
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
  input rate 0 bps, 0 pps; output rate 0 bps, 0 pps
Load-Interval #2: 5 minute (300 seconds)
  300 seconds input rate 16 bits/sec, 0 packets/sec
  300 seconds output rate 16 bits/sec, 0 packets/sec
  input rate 16 bps, 0 pps; output rate 16 bps, 0 pps
RX
  0 unicast packets  6 multicast packets  0 broadcast packets
  6 input packets  1578 bytes
  0 jumbo packets  0 storm suppression bytes
  0 runts  0 giants  0 CRC  0 no buffer
  0 input error  0 short frame  0 overrun  0 underrun  0 ignored
  0 watchdog  0 bad etype drop  0 bad proto drop  0 if down drop
  0 input with dribble  0 input discard
  0 Rx pause
TX
  0 unicast packets  6 multicast packets  0 broadcast packets
  6 output packets  1590 bytes
  0 jumbo packets
  0 output error  0 collision  0 deferred  0 late collision
  0 lost carrier  0 no carrier  0 babble  0 output discard
  0 Tx pause

```

switch# SHOW INTERface ETH 1/53/1-4 TRANsceiver DETails

```

Ethernet1/53/1
  transceiver is present
  type is QSFP-100G-CR4
  name is NADDOD
  part number is Q4SFP-100G-CU1
  revision is A
  serial number is ACS22060700620
  nominal bitrate is 25500 MBit/sec per channel
  Link length supported for copper is 1 m
  cisco id is 17
  cisco extended id number is 0

```

DOM is not supported

Ethernet1/53/2

transceiver is present  
type is QSFP-100G-CR4  
name is NADDOD  
part number is Q4SFP-100G-CU1  
revision is A  
serial number is ACS22060700620  
nominal bitrate is 25500 MBit/sec per channel  
Link length supported for copper is 1 m  
cisco id is 17  
cisco extended id number is 0

DOM is not supported

Ethernet1/53/3

transceiver is present  
type is QSFP-100G-CR4  
name is NADDOD  
part number is Q4SFP-100G-CU1  
revision is A  
serial number is ACS22060700620  
nominal bitrate is 25500 MBit/sec per channel  
Link length supported for copper is 1 m  
cisco id is 17  
cisco extended id number is 0

DOM is not supported

Ethernet1/53/4

transceiver is present  
type is QSFP-100G-CR4  
name is NADDOD  
part number is Q4SFP-100G-CU1  
revision is A  
serial number is ACS22060700620  
nominal bitrate is 25500 MBit/sec per channel  
Link length supported for copper is 1 m  
cisco id is 17  
cisco extended id number is 0

DOM is not supported



Test situation	Q4SFP-100G-CU1					
	Vendor	NADDOD	NADDOD	NADDOD	NADDOD	NADDOD
	Part Number	Q4SFP-100G-CU1	Q4SFP-100G-CU1	Q4SFP-100G-CU1	Q4SFP-100G-CU1	Q4SFP-100G-CU1
	Serial Number	ACS22060700620	ACS22060700620-1	ACS22060700620-2	ACS22060700620-3	ACS22060700620-4
	Link Length	1m	1m	1m	1m	1m
	Transceiver Type	QSFP-100G-CR4	SFP-H25GB-CU1M	SFP-H25GB-CU1M	SFP-H25GB-CU1M	SFP-H25GB-CU1M
	DDM Alarm	NO	NO	NO	NO	NO
Test Conclusion	After testing, the above Transceiver on Cisco 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
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-8679).
	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	<p>1. The actual DDM information is within the DDM threshold and there are no alarms.</p> <p>2. The DDM threshold range is in accordance with the module specification.</p>
	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.

## Further Information :

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Web [www.naddod.com](http://www.naddod.com)

Email For order requirements: [sales@naddod.com](mailto:sales@naddod.com)

For cooperation: [agency@naddod.com](mailto:agency@naddod.com)

For customer service: [support@naddod.com](mailto:support@naddod.com)

For other informations: [info@naddod.com](mailto:info@naddod.com)

For technical support: [tech@naddod.com](mailto:tech@naddod.com)

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