

AOC Cable Test Report

PN: QSFP-100G-AOC3M

I. Test Purpose

By building realistic switch use cases, we test whether the 100G QSFP28 AOC (QSFP-100G-AOC3M) cable meets industry standards, performs at a high level, and is compatible with the target switch platform.

II. Test Results Summary

Test items	Test Result	Note
Compatibility Test	Pass	Check whether the cable is compatible with the target switch
Digital Diagnostic Monitoring	Pass	Check whether the DDM parameters have exceeded the threshold value

III. Test Environment

3.1 Test Sample

Vendor Name	Part Number	Serial Number	Description
OPTCORE	QSFP-100G-AOC3M	24C4801128	100G QSFP Active Optical Cable


3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Cisco	Nexus9000 C92160YC-X Switch	07.59

IV. Test Data

4.1 Compatibility Test

Test Data



```

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   --
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	100G	QSFP-100G-SR4
	Eth1/51	--	xcvrAbsen	routed	auto	auto	--
	Eth1/52	--	connected	routed	full	100G	QSFP-100G-SR4
	Eth1/53	--	xcvrAbsen	routed	auto	auto	--
	Eth1/54	--	xcvrAbsen	routed	auto	auto	--
Test Conclusion	The 100G QSFP28 AOC Cable was successfully recognized by the Cisco Nexus 9000 C92160YC-X switch, with all identification information accurately displayed in the outputs.						

4.2 Digital Diagnostic Monitoring

Test Data	switch# show interface transceiver details					
	Ethernet1/50					
	transceiver is present					
	type is QSFP-100G-SR4					
	name is OPTCORE					
	part number is QSFP-100G-AOC3M					
	revision is 00					
	serial number is 24C4801128					
	nominal bitrate is 25500 MBit/sec per channel					
	cisco id is 17					
	cisco extended id number is 140					
	Lane Number:1 Network Lane					
	SFP Detail Diagnostics Information (internal calibration)					

		Current Measurement	Alarms High	Alarms Low	Warnings High	Warnings Low
	-----	-----	-----	-----	-----	
	Temperature	28.11 C	85.00 C	-10.00 C	70.00 C	0.00 C
	Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
	Current	6.98 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
	Tx Power	0.41 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
	Rx Power	1.29 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
	Transmit Fault Count = 0					

	Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning					
	Lane Number:2 Network Lane					
	SFP Detail Diagnostics Information (internal calibration)					

	Current Measurement	Alarms High	Alarms Low	Warnings High	Warnings Low	
	-----	-----	-----	-----	-----	
	Temperature	28.11 C	85.00 C	-10.00 C	70.00 C	0.00 C

Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	6.98 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.40 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
Rx Power	1.38 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
Transmit Fault Count = 0					

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:3 Network Lane

SFP Detail Diagnostics Information (internal calibration)

	Current	Alarms		Warnings	
	Measurement	High	Low	High	Low
Temperature	28.11 C	85.00 C	-10.00 C	70.00 C	0.00 C
Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	7.01 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.43 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
Rx Power	1.20 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
Transmit Fault Count = 0					

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:4 Network Lane

SFP Detail Diagnostics Information (internal calibration)

	Current	Alarms		Warnings	
	Measurement	High	Low	High	Low
Temperature	28.11 C	85.00 C	-10.00 C	70.00 C	0.00 C
Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	7.00 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.42 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
Rx Power	1.38 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
Transmit Fault Count = 0					

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Ethernet1/51

transceiver is not present

Ethernet1/52

transceiver is present
 type is QSFP-100G-SR4
 name is OPTCORE
 part number is QSFP-100G-AOC3M

revision is 00
 serial number is 24C4801128
 nominal bitrate is 25500 MBit/sec per channel
 cisco id is 17
 cisco extended id number is 140

Lane Number:1 Network Lane

SFP Detail Diagnostics Information (internal calibration)

	Current	Alarms		Warnings	
	Measurement	High	Low	High	Low
Temperature	27.54 C	85.00 C	-10.00 C	70.00 C	0.00 C
Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	7.01 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.42 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
Rx Power	0.95 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
Transmit Fault Count = 0					

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:2 Network Lane

SFP Detail Diagnostics Information (internal calibration)

	Current	Alarms		Warnings	
	Measurement	High	Low	High	Low
Temperature	27.54 C	85.00 C	-10.00 C	70.00 C	0.00 C
Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	7.00 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.42 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm
Rx Power	0.88 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm
Transmit Fault Count = 0					

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning

Lane Number:3 Network Lane

SFP Detail Diagnostics Information (internal calibration)

	Current	Alarms		Warnings	
	Measurement	High	Low	High	Low
Temperature	27.54 C	85.00 C	-10.00 C	70.00 C	0.00 C
Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V
Current	6.99 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA
Tx Power	0.41 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm

	<p>Rx Power 1.19 dBm 3.99 dBm -18.23 dBm 2.39 dBm -15.08 dBm</p> <p>Transmit Fault Count = 0</p> <p>-----</p> <p>Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning</p> <p>Lane Number:4 Network Lane</p> <p>SFP Detail Diagnostics Information (internal calibration)</p> <p>-----</p> <table border="1"> <thead> <tr> <th></th> <th>Current Measurement</th> <th colspan="2">Alarms</th> <th colspan="2">Warnings</th> </tr> <tr> <th></th> <th></th> <th>High</th> <th>Low</th> <th>High</th> <th>Low</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>27.54 C</td> <td>85.00 C</td> <td>-10.00 C</td> <td>70.00 C</td> <td>0.00 C</td> </tr> <tr> <td>Voltage</td> <td>3.24 V</td> <td>3.59 V</td> <td>2.90 V</td> <td>3.50 V</td> <td>3.09 V</td> </tr> <tr> <td>Current</td> <td>6.99 mA</td> <td>15.00 mA</td> <td>1.00 mA</td> <td>12.00 mA</td> <td>2.00 mA</td> </tr> <tr> <td>Tx Power</td> <td>0.41 dBm</td> <td>3.99 dBm</td> <td>-10.60 dBm</td> <td>2.39 dBm</td> <td>-7.61 dBm</td> </tr> <tr> <td>Rx Power</td> <td>0.97 dBm</td> <td>3.99 dBm</td> <td>-18.23 dBm</td> <td>2.39 dBm</td> <td>-15.08 dBm</td> </tr> <tr> <td>Transmit Fault Count</td> <td colspan="5">= 0</td> </tr> </tbody> </table> <p>-----</p> <p>Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning</p>		Current Measurement	Alarms		Warnings				High	Low	High	Low	Temperature	27.54 C	85.00 C	-10.00 C	70.00 C	0.00 C	Voltage	3.24 V	3.59 V	2.90 V	3.50 V	3.09 V	Current	6.99 mA	15.00 mA	1.00 mA	12.00 mA	2.00 mA	Tx Power	0.41 dBm	3.99 dBm	-10.60 dBm	2.39 dBm	-7.61 dBm	Rx Power	0.97 dBm	3.99 dBm	-18.23 dBm	2.39 dBm	-15.08 dBm	Transmit Fault Count	= 0				
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Test Conclusion	<p>After testing, the 100G QSFP28 AOC Cable on the Cisco Nexus 9000 C92160YC-X switch DDM is normally identified, the parameters do not exceed thresholds, and the cable operates normally.</p>																																																

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-1-30	Preliminary test report

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