OPTCORE

AOC Cable Test Report

PN: SFP-25G-AOC1M

Test by: Maddy | Date: 2026/1/27

I. Test Purpose

By building realistic switch use cases, we test whether the SFP-25G-AOC1M 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	SFP-25G-AOC1M	2011184480	25G SFP28 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	--	connected routed	full	25G	SFP-H25GB-SR
	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	--	connected routed	full	25G	SFP-H25GB-SR
	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 -- xcvrAbsen routed auto auto -- Eth1/51 -- xcvrAbsen routed auto auto -- Eth1/52 -- xcvrAbsen routed auto auto -- Eth1/53 -- xcvrAbsen routed auto auto -- Eth1/54 -- xcvrAbsen routed auto auto --
Test Conclusion	The SFP28 AOC Cable was successfully recognized by the Cisco Nexus9000 C92160YC-X switch, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	switch# show interface transceiver details Ethernet1/17 transceiver is present type is SFP-H25GB-SR name is OPTCORE part number is SFP-25G-AOC1M revision is Rev1 serial number is 2011184480 nominal bitrate is 25500 MBit/sec cisco id is 3 cisco extended id number is 4 SFP Detail Diagnostics Information (internal calibration) -- Current Alarms Warnings Measurement High Low High Low -- Temperature 22.00 C 80.00 C -10.00 C 70.00 C 0.00 C Voltage 3.22 V 3.63 V 2.97 V 3.46 V 3.13 V Current 6.14 mA 15.00 mA 0.00 mA 12.00 mA 2.00 mA Tx Power 1.75 dBm 3.49 dBm -9.03 dBm 3.00 dBm -6.00 dBm Rx Power 2.54 dBm 3.49 dBm -13.01 dBm 3.00 dBm -10.00 dBm Transmit Fault Count = 0 -- Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning Ethernet1/29 transceiver is present type is SFP-H25GB-SR name is OPTCORE part number is SFP-25G-AOC1M revision is Rev1 serial number is 2011184480 nominal bitrate is 25500 MBit/sec cisco id is 3

	cisco extended id number is 4 SFP Detail Diagnostics Information (internal calibration) ---------- Current / Alarms / Warnings Measurement / High / Low / High / Low ---------- Temperature 26.00 C 80.00 C -10.00 C 70.00 C 0.00 C Voltage 3.22 V 3.63 V 2.97 V 3.46 V 3.13 V Current 6.18 mA 15.00 mA 0.00 mA 12.00 mA 2.00 mA Tx Power 1.72 dBm 3.49 dBm -9.03 dBm 3.00 dBm -6.00 dBm Rx Power 2.32 dBm 3.49 dBm -13.01 dBm 3.00 dBm -10.00 dBm Transmit Fault Count = 0 ---------- Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning
Test Conclusion	After testing, the The SFP28 AOC Cable on the Cisco Nexus9000 C92160YC-X switch DDM is normally identified, the parameters do not exceed thresholds, and the cable operates normally.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-1-27	Preliminary test report