OPTCORE

Transceiver Test Report

PN: SFP-25G-SR

Test by: Maddy | Date: 2026/01/29

I. Test Purpose

By building realistic switch use cases, we test whether the SFP-25G-SR transceiver 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 transceiver is compatible with the target switch
Digital Diagnostic Monitoring	Pass	Check whether the DDM parameters have exceeded the threshold value
Transmission Distance Test	Pass	Check whether the transceiver meets the distance specification

III. Test Environment

3.1 Test Sample

Vendor Name	Part Number	Serial Number	Description
OPTCORE	SFP-25G-SR	26A4405673	25G SFP28 SR 850nm 100m Transceiver
OPTCORE	SFP-25G-SR	26A4405674	25G SFP28 SR 850nm 100m Transceiver

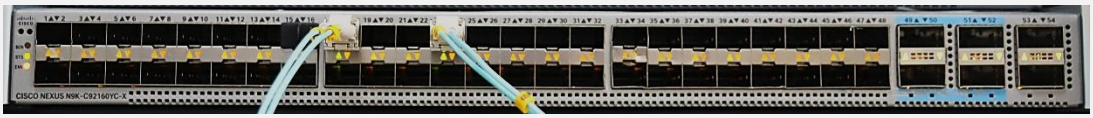
3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Cisco	Nexus9000 C92160YC-X switch	07.59
OPTCORE	LC-LC-OM3-D70M	70m duplex LC OM3 patch cable

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	--
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	--	connected	routed	full	25G	SFP-H25GB-SR
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 -- 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 optical transceiver 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-SR revision is AA serial number is 26A4405673 nominal bitrate is 25500 MBit/sec Link length supported for 50/125um OM3 fiber is 70 m cisco id is 3 cisco extended id number is 4 SFP Detail Diagnostics Information (internal calibration) ----------

<table>
<tr>
<td></td>
<td>
Current Measurement | Alarms High | Alarms Low | Warnings High | Warnings Low
----
Temperature 19.03 C 75.00 C -10.00 C 70.00 C -5.00 C
Voltage 3.26 V 3.59 V 3.00 V 3.47 V 3.13 V
Current 7.01 mA 15.00 mA 2.00 mA 12.00 mA 4.00 mA
Tx Power 0.99 dBm 3.49 dBm -8.01 dBm 1.99 dBm -7.01 dBm
Rx Power 1.32 dBm 2.99 dBm -14.08 dBm 1.99 dBm -13.01 dBm
Transmit Fault Count = 0

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

Ethernet1/23
transceiver is present
type is SFP-H25GB-SR
name is OPTCORE
part number is SFP-25G-SR
revision is AA
serial number is 26A4405674
nominal bitrate is 25500 MBit/sec
Link length supported for 50/125um OM3 fiber is 70 m
cisco id is 3
cisco extended id number is 4

SFP Detail Diagnostics Information (internal calibration)

Current Measurement | Alarms High | Alarms Low | Warnings High | Warnings Low
----
Temperature 20.74 C 75.00 C -10.00 C 70.00 C -5.00 C
Voltage 3.28 V 3.59 V 3.00 V 3.47 V 3.13 V
Current 7.01 mA 15.00 mA 2.00 mA 12.00 mA 4.00 mA
Tx Power 1.39 dBm 3.49 dBm -8.01 dBm 1.99 dBm -7.01 dBm
Rx Power 0.77 dBm 2.99 dBm -14.08 dBm 1.99 dBm -13.01 dBm
Transmit Fault Count = 0

Note: ++ high-alarm; + high-warning; -- low-alarm; - low-warning
</td>
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<tr>
<td>Test Conclusion</td>
<td>After testing, the above transceiver on the Cisco Nexus9000 C92160YC-X switch DDM is normally identified, the parameters do not exceed thresholds, and the transceiver operates normally.</td>
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4.3 Transmission Distance Test

Test Conclusion	In this test, optical transceiver modules were connected using 70-meter OM3 fiber cables and 100-meter OM4 fiber cables to verify link stability. The modules were inserted into the switches and established a point-to-point connection. The link was monitored for one hour to check for any bit errors, packet loss, link drops, or interruptions. All connections remained stable and error-free, indicating that the modules perform reliably.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-01-29	Preliminary test report