

Transceiver Test Report

PN: OSP1250-3120DCR (SFP-1G-LX)

I. Test Purpose

By building realistic switch use cases, we test whether the OSP1250-3120DCR (SFP-1G-LX) 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
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	OSP1250-3120DCR	22K4401926	1000BASE-LX SFP SMF 1310nm 20km Transceiver
OPTCORE	OSP1250-3120DCR	24K4401928	1000BASE-LX SFP SMF 1310nm 20km Transceiver

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Dell	PowerConnect 3524	2.0.0.29
OPTCORE	LC-LC-OS2-D20KM	20km duplex LC single mode patch cable


IV. Test Data

4.1 Compatibility Test

Test Data	 <p>01-Jan-2000 00:59:27 %Fiber-I-SFP-PRESENT-CHNG: g1 SFP status is present. 01- Jan-2000 00:59:31 %Fiber-I-SFP-PRESENT-CHNG: g2 SFP status is present.</p> <pre>RS-SH-SW1# show interfaces advertise Port Type Neg Operational Link Advertisement ----- e1 100M-Copper Enabled --</pre>
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e2	100M-Copper	Enabled	--
e3	100M-Copper	Enabled	--
e4	100M-Copper	Enabled	--
e5	100M-Copper	Enabled	--
e6	100M-Copper	Enabled	--
e7	100M-Copper	Enabled	--
e8	100M-Copper	Enabled	--
e9	100M-Copper	Enabled	--
e10	100M-Copper	Enabled	--
e11	100M-Copper	Enabled	--
e12	100M-Copper	Enabled	--
e13	100M-Copper	Enabled	--
e14	100M-Copper	Enabled	--
e15	100M-Copper	Enabled	--
e16	100M-Copper	Enabled	--
e17	100M-Copper	Enabled	--
e18	100M-Copper	Enabled	--
e19	100M-Copper	Enabled	--
e20	100M-Copper	Enabled	--
e21	100M-Copper	Enabled	--
e22	100M-Copper	Enabled	--
e23	100M-Copper	Enabled	--
e24	100M-Copper	Enabled	--
g1	1G-Fiber	Enabled 1000f	
g2	1G-Fiber	Enabled 1000f	
g3	1G-Copper	Enabled	--
g4	1G-Copper	Enabled	--
Test Conclusion	The optical transceiver was successfully recognized by the Dell PowerConnect 3524, with all identification information accurately displayed in the outputs.		

4.2 Transmission Distance Test

Test Conclusion	 <p>In this test, OSP1250-3120DCR (SFP-1G-LX) modules were connected using 20km single mode fiber (SMF) cables to verify link stability. The modules were inserted into the switches</p>
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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 over an 20km single mode fiber link.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2025-12-18	Preliminary test report

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