OPTCORE

Transceiver Test Report

PN: OSP10G-8503DCR (SFP-10G-SR)

Test by: Maddy | Date: 2025/12/10

I. Test Purpose

By building realistic switch use cases, we test whether the OSP10G-8503DCR (SFP-10G-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	OSP10G-8503DCR	24K4401736	10GBASE-SR SFP+ MMF 850nm 300m Transceiver
OPTCORE	OSP10G-8503DCR	24K4401741	10GBASE-SR SFP+ MMF 850nm 300m Transceiver

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Extreme	VSP-7400-48Y-8C	8.0.5.1
OPTCORE	LC-LC-OM3-D300M	300m duplex LC OM3 patch cable

IV. Test Data

4.1 Compatibility Test

Test Data	 THQ-DISTRO-TA-MELSW016006:1#show pluggable-optical-modules basic ********** Command Execution Time: Tue Dec 09 06:37:47 2025 UTC ********** ========== Pluggable Optical Module Info ========== PORT NUM / TYPE / DDM SUPPORTED / VENDOR NAME / PART NUMBER --- 1/17 10GbSR TRUE OPTCORE OSP10G-8503DCR 1/18 10GbSR TRUE OPTCORE OSP10G-8503DCR
Test Conclusion	The optical transceiver was successfully recognized by the Extreme VSP-7400-48Y-8C, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	THQ-DISTRO-TA-MELSW016006:1#show pluggable-optical-modules detail ********** Command Execution Time: Tue Dec 09 06:41:11 2025 UTC ********** ========== Pluggable Optical Module Info 1/1 Detail ========== Port: 1/17 Type: 10GbSR DDM Supported : TRUE Vendor Name : OPTCORE Partnumber : OSP10G-8503DCR Vendor REV : A Vendor SN : 24K4401736 Vendor Date : 11/12/24 Wavelength : 850.00 nm Digital Diagnostic Interface Supported Optics Status : Ok Calibration : Internal RX Power Measurement : Average

Auxiliary 1 Monitoring : Not Implemented
Auxiliary 2 Monitoring : Not Implemented

	LOW_ALARM THRESHOLD	LOW_WARN THRESHOLD	ACTUAL VALUE	HIGH_WARN THRESHOLD	HIGH_ALARM THRESHOLD	THRESHOLD STATUS
Temp(C)	-10.0	-5.0	27.1562	85.0	90.0	Normal
Voltage(V)	2.9000	3.0	3.3817	3.6000	3.7000	Normal
Bias(mA)	1.0	2.0	6.4680	13.0	15.0	Normal
TxPower(dBm)	-7.0	-6.0	-2.0	1.0	2.0	Normal
RxPower(dBm)	-13.0	-12.0	-2.3000	1.0	2.0	Normal

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Pluggable Optical Module Info 1/2 Detail

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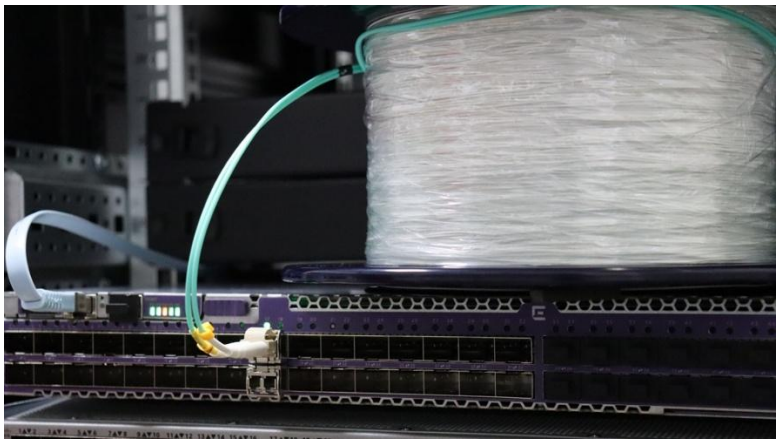
Port: 1/18
Type: 10GbSR
DDM Supported : TRUE
Vendor Name : OPTCORE Partnumber : OSP10G-8503DCR
Vendor REV : A Vendor SN : 24K4401741
Vendor Date : 11/12/24
Wavelength : 850.00 nm
Digital Diagnostic Interface Supported

Optics Status : Ok
Calibration : Internal
RX Power Measurement : Average
Auxiliary 1 Monitoring : Not Implemented
Auxiliary 2 Monitoring : Not Implemented

	LOW_ALARM THRESHOLD	LOW_WARN THRESHOLD	ACTUAL VALUE	HIGH_WARN THRESHOLD	HIGH_ALARM THRESHOLD	THRESHOLD STATUS
Temp(C)	-10.0	-5.0	28.3750	85.0	90.0	Normal
Voltage(V)	2.9000	3.0	3.3953	3.6000	3.7000	Normal
Bias(mA)	1.0	2.0	6.1740	13.0	15.0	Normal
TxPower(dBm)	-7.0	-6.0	-2.5000	1.0	2.0	Normal
RxPower(dBm)	-13.0	-12.0	-1.9000	1.0	2.0	Normal

Test Conclusion	After testing, the above transceiver on the Extreme VSP-7400-48Y-8C DDM is normally identified, the parameters do not exceed thresholds, and the transceiver operates normally.

4.3 Transmission Distance Test

Test Conclusion	 In this test, optical transceiver modules were connected using 300-meter OM3 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 over an 300-meter fiber link.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2025-12-10	Preliminary test report