OPTCORE

Transceiver Test Report

PN: QSFP-40G-SR4

Test by: Maddy | Date: 2026/02/02

I. Test Purpose

By building realistic switch use cases, we test whether the QSFP-40G-SR4 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	QSFP-40G-SR4	24G2002163	40GBASE-SR4 QSFP+ 850nm 100m Transceiver
OPTCORE	QSFP-40G-SR4	24G2002164	40GBASE-SR4 QSFP+ 850nm 100m Transceiver

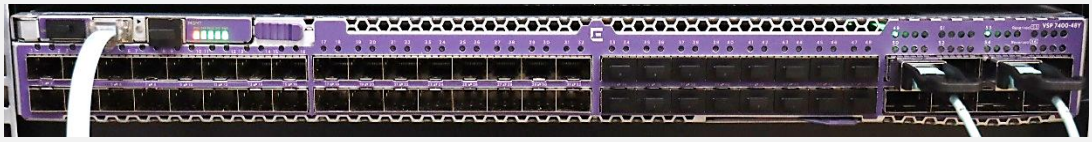
3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Extreme	VSP-7400-48Y-8C	8.0.5.1
OPTCORE	MT-MPO/F-MPO/F-12OM3-100M-B-LS	100M Multimode OM3 MPO Fiber Trunk Cable,12-Fiber, Female, UPC, Polarity B
OPTCORE	MT-MPO/F-MPO/F-12OM4-150M-B-LS	150M Multimode OM4 MPO Fiber Trunk Cable,12-Fiber, Female, UPC, Polarity B

IV. Test Data

4.1 Compatibility Test

Test Data



THQ-DISTRO-TA-MELSW016006:1#show interfaces gigabitEthernet

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Command Execution Time: Fri Jan 30 03:29:26 2026 UTC

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Port Interface

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PORT NUM	INDEX	DESCRIPTION	LINK TRAP	PORT LOCK	PHYSICAL MTU	ADDRESS	STATUS ADMIN	OPERATE
1/1	192	25GbNone	true	false	1950	20:9e:f7:8d:84:00	up	down
1/2	193	25GbNone	true	false	1950	20:9e:f7:8d:84:01	up	down
1/3	194	25GbNone	true	false	1950	20:9e:f7:8d:84:02	up	down
1/4	195	25GbNone	true	false	1950	20:9e:f7:8d:84:03	up	down
1/5	196	25GbNone	true	false	1950	20:9e:f7:8d:84:04	up	down
1/6	197	25GbNone	true	false	1950	20:9e:f7:8d:84:05	up	down
1/7	198	25GbNone	true	false	1950	20:9e:f7:8d:84:06	up	down
1/8	199	25GbNone	true	false	1950	20:9e:f7:8d:84:07	up	down
1/9	200	25GbNone	true	false	1950	20:9e:f7:8d:84:08	up	down
1/10	201	25GbNone	true	false	1950	20:9e:f7:8d:84:09	up	down
1/11	202	25GbNone	true	false	1950	20:9e:f7:8d:84:0a	up	down
1/12	203	25GbNone	true	false	1950	20:9e:f7:8d:84:0b	up	down
1/13	204	25GbNone	true	false	1950	20:9e:f7:8d:84:0c	up	down
1/14	205	25GbNone	true	false	1950	20:9e:f7:8d:84:0d	up	down
1/15	206	25GbNone	true	false	1950	20:9e:f7:8d:84:0e	up	down
1/16	207	25GbNone	true	false	1950	20:9e:f7:8d:84:0f	up	down
1/17	208	25GbNone	true	false	1950	20:9e:f7:8d:84:10	up	down
1/18	209	25GbNone	true	false	1950	20:9e:f7:8d:84:11	up	down
1/19	210	25GbNone	true	false	1950	20:9e:f7:8d:84:12	up	down
1/20	211	25GbNone	true	false	1950	20:9e:f7:8d:84:13	up	down
1/21	212	25GbNone	true	false	1950	20:9e:f7:8d:84:14	up	down
1/22	213	25GbNone	true	false	1950	20:9e:f7:8d:84:15	up	down
1/23	214	25GbNone	true	false	1950	20:9e:f7:8d:84:16	up	down

	1/24 215 25GbNone true false 1950 20:9e:f7:8d:84:17 up down 1/25 216 25GbNone true false 1950 20:9e:f7:8d:84:18 up down 1/26 217 25GbNone true false 1950 20:9e:f7:8d:84:19 up down 1/27 218 25GbNone true false 1950 20:9e:f7:8d:84:1a up down 1/28 219 25GbNone true false 1950 20:9e:f7:8d:84:1b up down 1/29 220 25GbNone true false 1950 20:9e:f7:8d:84:1c up down 1/30 221 25GbNone true false 1950 20:9e:f7:8d:84:1d up down 1/31 222 25GbNone true false 1950 20:9e:f7:8d:84:1e up down 1/32 223 25GbNone true false 1950 20:9e:f7:8d:84:1f up down 1/33 224 25GbNone true false 1950 20:9e:f7:8d:84:20 up down 1/34 225 25GbNone true false 1950 20:9e:f7:8d:84:21 up down 1/35 226 25GbNone true false 1950 20:9e:f7:8d:84:22 up down 1/36 227 25GbNone true false 1950 20:9e:f7:8d:84:23 up down 1/37 228 25GbNone true false 1950 20:9e:f7:8d:84:24 up down 1/38 229 25GbNone true false 1950 20:9e:f7:8d:84:25 up down 1/39 230 25GbNone true false 1950 20:9e:f7:8d:84:26 up down 1/40 231 25GbNone true false 1950 20:9e:f7:8d:84:27 up down 1/41 232 25GbNone true false 1950 20:9e:f7:8d:84:28 up down 1/42 233 25GbNone true false 1950 20:9e:f7:8d:84:29 up down 1/43 234 25GbNone true false 1950 20:9e:f7:8d:84:2a up down 1/44 235 25GbNone true false 1950 20:9e:f7:8d:84:2b up down 1/45 236 25GbNone true false 1950 20:9e:f7:8d:84:2c up down 1/46 237 25GbNone true false 1950 20:9e:f7:8d:84:2d up down 1/47 238 25GbNone true false 1950 20:9e:f7:8d:84:2e up down 1/48 239 25GbNone true false 1950 20:9e:f7:8d:84:2f up down 1/49 256 40GbSR4 true false 1950 20:9e:f7:8d:84:30 up up 1/50 257 100GbNone true false 1950 20:9e:f7:8d:84:31 up down 1/51 258 100GbNone true false 1950 20:9e:f7:8d:84:32 up down 1/52 259 100GbNone true false 1950 20:9e:f7:8d:84:33 up down 1/53 260 40GbSR4 true false 1950 20:9e:f7:8d:84:34 up up 1/54 261 100GbNone true false 1950 20:9e:f7:8d:84:35 up down 1/s1 320 10GbInsight true false 1950 20:9e:f7:8d:84:38 down down
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: Mon Feb 02 06:14:42 2026 UTC ** ==

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Pluggable Optical Module Info 1/49 Detail

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Port: 1/49

Type: 40GbSR4

DDM Supported : TRUE

Vendor Name : OPTCORE Partnumber : QSFP-40G-SR4

Vendor REV : A1 Vendor SN : 24G2002163

Vendor Date : 07/09/24

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	0.0	18.6992	70.0	85.0	Normal
Voltage(V)	2.9000	3.1000	3.2720	3.5000	3.6000	Normal
Tx1Bias(mA)	1.0	2.0	6.3980	12.0	15.0	Normal
Tx2Bias(mA)	1.0	2.0	6.2920	12.0	15.0	Normal
Tx3Bias(mA)	1.0	2.0	6.1720	12.0	15.0	Normal
Tx4Bias(mA)	1.0	2.0	6.6000	12.0	15.0	Normal
Tx1Power(dBm)	-10.6000	-7.6000	-2.0	2.4000	4.0	Normal
Tx2Power(dBm)	-10.6000	-7.6000	-2.0	2.4000	4.0	Normal
Tx3Power(dBm)	-10.6000	-7.6000	-2.1000	2.4000	4.0	Normal
Tx4Power(dBm)	-10.6000	-7.6000	-1.9000	2.4000	4.0	Normal
Rx1Power(dBm)	-18.0	-15.0	0.4000	2.4000	4.0	Normal
Rx2Power(dBm)	-18.0	-15.0	0.4000	2.4000	4.0	Normal
Rx3Power(dBm)	-18.0	-15.0	0.4000	2.4000	4.0	Normal
Rx4Power(dBm)	-18.0	-15.0	0.3000	2.4000	4.0	Normal

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Pluggable Optical Module Info 1/53 Detail

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Port: 1/53
Type: 40GbSR4
DDM Supported : TRUE
Vendor Name : OPTCORE Partnumber : QSFP-40G-SR4
Vendor REV : A1 Vendor SN : 24G2002164
Vendor Date : 07/09/24
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	0.0	18.2968	70.0	85.0	Normal
Voltage(V)	2.9000	3.1000	3.2740	3.5000	3.6000	Normal
Tx1Bias(mA)	1.0	2.0	6.6040	12.0	15.0	Normal
Tx2Bias(mA)	1.0	2.0	6.5760	12.0	15.0	Normal
Tx3Bias(mA)	1.0	2.0	6.2540	12.0	15.0	Normal
Tx4Bias(mA)	1.0	2.0	6.7680	12.0	15.0	Normal
Tx1Power(dBm)	-10.6000	-7.6000	-1.9000	2.4000	4.0	Normal
Tx2Power(dBm)	-10.6000	-7.6000	-2.0	2.4000	4.0	Normal
Tx3Power(dBm)	-10.6000	-7.6000	-2.0	2.4000	4.0	Normal
Tx4Power(dBm)	-10.6000	-7.6000	-1.9000	2.4000	4.0	Normal
Rx1Power(dBm)	-18.0	-15.0	-0.2000	2.4000	4.0	Normal
Rx2Power(dBm)	-18.0	-15.0	0.1000	2.4000	4.0	Normal
Rx3Power(dBm)	-18.0	-15.0	-0.4000	2.4000	4.0	Normal
Rx4Power(dBm)	-18.0	-15.0	-0.3000	2.4000	4.0	Normal

Test Conclusion	After testing, the above QSFP-40G-SR4 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 100-merter OM3 and 150-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 over an 100-meter fiber link.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-02-02	Preliminary test report