OPTCORE

Transceiver Test Report

PN: OSP1250-8505DCR (SFP-1G-SX)

Test by: Maddy | Date: 2025/12/18

I. Test Purpose

By building realistic switch use cases, we test whether the OSP1250-8505DCR (SFP-1G-SX) 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	OSP1250-8505DCR	24K4401807	1000BASE-SX SFP MMF 850nm 550m Transceiver
OPTCORE	OSP1250-8505DCR	24K4401810	1000BASE-SX SFP MMF 850nm 550m Transceiver

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Extreme	Summit48si:4	7.3.2.3
OPTCORE	LC-LC-OM2-D550M	550m duplex LC multimode patch cable

IV. Test Data

4.1 Compatibility Test

Test Data	 * Summit48si:4 # show ports 49 info detail Port 49: Type: SX Diagnostic: passed Aggregate B/W: Configured 100 % Random Early Drop: Disabled Admin state: Enabled, with auto-duplex 1000 Mbps

Link state: Active. . Full-duplex 1000 Mbps.
Link counter: Up 1 time(s), Down 0 times(s)
Link Filter counter: Up 1 time(s), Down 0 times(s)
VLAN cfg:
Default [Internal Tag=0001,Mac-Limit:Cfg=No-limit,LRN=0,BlkHole=0]

STP cfg:
s0(disable), Tag=(none), Mode=802.1D, State=FORWARDING

Trunking: Load sharing is not enabled
Protocol: VLAN=Default Vpri=0 Protocol=ANY [EtherType:ffff]
EDP: enabled
DLCS: disabled
lbdetect: disabled
Learning: enabled
Flooding: disabled
Jumbo: Disabled
BG QoS monitor: disabled
Ingress Rate Shaping:
QoS profile: None configured
Queue: Q0 using QP1 MinBw=0% MaxBw=100% Pri=0.
Q1 using QP2 MinBw=0% MaxBw=100% Pri=1.
Q2 using QP3 MinBw=0% MaxBw=100% Pri=2.
Q3 using QP4 MinBw=0% MaxBw=100% Pri=3.
Q4 using QP5 MinBw=0% MaxBw=100% Pri=4.
Q5 using QP6 MinBw=0% MaxBw=100% Pri=5.
Q6 using QP7 MinBw=0% MaxBw=100% Pri=6.
Q7 using QP8 MinBw=0% MaxBw=100% Pri=7.
Ingress IPTOS: Examination is disabled
IPTOS->QOSProfile mapping:
00->QP1 01->QP1 02->QP1 03->QP1 04->QP1 05->QP1 06->QP1 07->QP1
08->QP2 09->QP2 10->QP2 11->QP2 12->QP2 13->QP2 14->QP2 15->QP2
16->QP3 17->QP3 18->QP3 19->QP3 20->QP3 21->QP3 22->QP3 23->QP3
24->QP4 25->QP4 26->QP4 27->QP4 28->QP4 29->QP4 30->QP4 31->QP4
32->QP5 33->QP5 34->QP5 35->QP5 36->QP5 37->QP5 38->QP5 39->QP5
40->QP6 41->QP6 42->QP6 43->QP6 44->QP6 45->QP6 46->QP6 47->QP6
48->QP7 49->QP7 50->QP7 51->QP7 52->QP7 53->QP7 54->QP7 55->QP7
56->QP8 57->QP8 58->QP8 59->QP8 60->QP8 61->QP8 62->QP8 63->QP8
Egress IPTOS: Replacement is disabled
802.1p Pri->IPTOS mapping:
0->00 1->08 2->16 3->24 4->32 5->40 6->48 7->56
802.1p: Disabled marking of priority field based on queue number
Smart Redundancy: Enabled

VLANs monitored for stats:

Software redundant port: disabled
jitter-tolerance: enabled
link filtering: isr filter = yes, middle layer filter = no
GBIC : Extreme
* Summit48si:5 # show ports 50 info detail
Port 50:
Type: SX
Diagnostic: passed
Aggregate B/W: Configured 100 %
Random Early Drop: Disabled
Admin state: Enabled, with auto-duplex 1000 Mbps
Link state: Active. . Full-duplex 1000 Mbps.
Link counter: Up 1 time(s), Down 0 times(s)
Link Filter counter: Up 1 time(s), Down 0 times(s)
VLAN cfg:
Default [Internal Tag=0001,Mac-Limit:Cfg=No-limit,LRN=0,BlkHole=0]

STP cfg:
s0(disable), Tag=(none), Mode=802.1D, State=FORWARDING

Trunking: Load sharing is not enabled
Protocol: VLAN=Default Vpri=0 Protocol=ANY [EtherType:ffff]
EDP: enabled
DLCS: disabled
lbdetect: disabled
Learning: enabled
Flooding: disabled
Jumbo: Disabled
BG QoS monitor: disabled
Ingress Rate Shaping:
QoS profile: None configured
Queue: Q0 using QP1 MinBw=0% MaxBw=100% Pri=0.
Q1 using QP2 MinBw=0% MaxBw=100% Pri=1.
Q2 using QP3 MinBw=0% MaxBw=100% Pri=2.
Q3 using QP4 MinBw=0% MaxBw=100% Pri=3.
Q4 using QP5 MinBw=0% MaxBw=100% Pri=4.
Q5 using QP6 MinBw=0% MaxBw=100% Pri=5.
Q6 using QP7 MinBw=0% MaxBw=100% Pri=6.
Q7 using QP8 MinBw=0% MaxBw=100% Pri=7.
Ingress IPTOS: Examination is disabled
IPTOS->QOSProfile mapping:
00->QP1 01->QP1 02->QP1 03->QP1 04->QP1 05->QP1 06->QP1 07->QP1
08->QP2 09->QP2 10->QP2 11->QP2 12->QP2 13->QP2 14->QP2 15->QP2
16->QP3 17->QP3 18->QP3 19->QP3 20->QP3 21->QP3 22->QP3 23->QP3
24->QP4 25->QP4 26->QP4 27->QP4 28->QP4 29->QP4 30->QP4 31->QP4

	32->QP5 33->QP5 34->QP5 35->QP5 36->QP5 37->QP5 38->QP5 39->QP5 40->QP6 41->QP6 42->QP6 43->QP6 44->QP6 45->QP6 46->QP6 47->QP6 48->QP7 49->QP7 50->QP7 51->QP7 52->QP7 53->QP7 54->QP7 55->QP7 56->QP8 57->QP8 58->QP8 59->QP8 60->QP8 61->QP8 62->QP8 63->QP8 Egress IPTOS: Replacement is disabled 802.1p Pri->IPTOS mapping: 0->00 1->08 2->16 3->24 4->32 5->40 6->48 7->56 802.1p: Disabled marking of priority field based on queue number Smart Redundancy: Enabled VLANs monitored for stats: Software redundant port: disabled jitter-tolerance: enabled link filtering: isr filter = yes, middle layer filter = no
Test Conclusion	The optical transceiver was successfully recognized by the Extreme Summit48si with all identification information accurately displayed in the outputs.

4.2 Transmission Distance Test

Test Conclusion	In this test, optical transceiver modules were connected using 550m OM2 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 550m fiber link.

Appendix A. Document Revision

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