OPTCORE

Transceiver Test Report

PN: OSP1250-CU01NCR (SFP-1G-T)

Test by: Maddy | Date: 2025/12/23

I. Test Purpose

By building realistic switch use cases, we test whether the OSP1250-CU01NCR (SFP-1G-T) 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

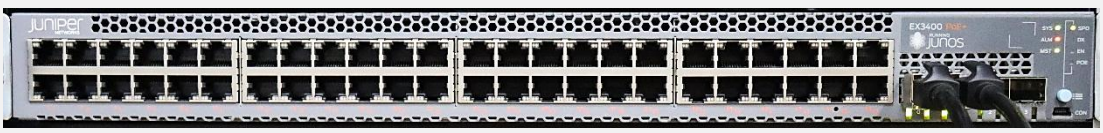
Vendor Name	Part Number	Serial Number	Description
OPTCORE	OSP1250-CU01NCR	25I2009811	1000BASE-T SFP RJ45 Copper 100m Transceiver
OPTCORE	OSP1250-CU01NCR	25I2009812	1000BASE-T SFP RJ45 Copper 100m Transceiver

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Juniper	EX3400 PoE+	JUNOS 18.2R3-S4.1
OPTCORE	CAB-C5-UTP-PVC-100m	100m Cat5 Snagless Unshielded (UTP) Ethernet Cable

IV. Test Data

4.1 Compatibility Test

Test Data	 {master:0} root@E18-Juniper> show interfaces statistics | match ge-0/2 Physical interface: ge-0/2/0, Enabled, Physical link is Up Logical interface ge-0/2/0.0 (Index 602) (SNMP ifIndex 621) Physical interface: ge-0/2/1, Enabled, Physical link is Up Logical interface ge-0/2/1.0 (Index 603) (SNMP ifIndex 620)

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{master:0}
root@E18-Juniper> show interfaces ge-0/2/0
Physical interface: ge-0/2/0, Enabled, Physical link is Up
  Interface index: 696, SNMP ifIndex: 614
  Link-level type: Ethernet, MTU: 1514, LAN-PHY mode, Speed: 1000mbps,
  BPDU Error: None, Loop Detect PDU Error: None, Ethernet-Switching Error: None,
  MAC-REWRITE Error: None, Loopback: Disabled, Source filtering: Disabled,
  Flow control: Disabled, Auto-negotiation: Enabled, Remote fault: Online,
  Media type: Fiber, IEEE 802.3az Energy Efficient Ethernet: Disabled,
  Auto-MDIX: Enabled
  Device flags      : Present Running
  Interface flags: SNMP-Traps Internal: 0x4000
  Link flags        : None
  CoS queues        : 12 supported, 12 maximum usable queues
  Current address: 00:cc:34:ac:21:7f, Hardware address: 00:cc:34:ac:21:7f
  Last flapped      : 2021-05-01 05:40:03 UTC (00:27:22 ago)
  Input rate        : 258106640 bps (103740 pps)
  Output rate       : 518259568 bps (208383 pps)
  Active alarms     : None
  Active defects : None
  PCS statistics                  Seconds
    Bit errors                         0
    Errored blocks                     0
  Ethernet FEC statistics         Errors
    FEC Corrected Errors               0
    FEC Uncorrected Errors             0
    FEC Corrected Errors Rate          0
    FEC Uncorrected Errors Rate        0
  PRBS Statistics : Disabled
  Interface transmit statistics: Disabled

  Logical interface ge-0/2/0.0 (Index 602) (SNMP ifIndex 621)
    Flags: Up SNMP-Traps 0x24024000 Encapsulation: Ethernet-Bridge
    Input packets : 488
    Output packets: 61
    Protocol eth-switch, MTU: 1514

{master:0}
root@E18-Juniper> show interfaces ge-0/2/1
Physical interface: ge-0/2/1, Enabled, Physical link is Up
  Interface index: 697, SNMP ifIndex: 615
  Link-level type: Ethernet, MTU: 1514, LAN-PHY mode, Speed: 1000mbps,
  BPDU Error: None, Loop Detect PDU Error: None, Ethernet-Switching Error: None,
  MAC-REWRITE Error: None, Loopback: Disabled, Source filtering: Disabled,
  Flow control: Disabled, Auto-negotiation: Enabled, Remote fault: Online,
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	Media type: Fiber, IEEE 802.3az Energy Efficient Ethernet: Disabled, Auto-MDIX: Enabled Device flags : Present Running Interface flags: SNMP-Traps Internal: 0x4000 Link flags : None CoS queues : 12 supported, 12 maximum usable queues Current address: 00:cc:34:ac:21:80, Hardware address: 00:cc:34:ac:21:80 Last flapped : 2021-05-01 05:40:03 UTC (00:27:31 ago) Input rate : 518244656 bps (208377 pps) Output rate : 258096856 bps (103736 pps) Active alarms : None Active defects : None PCS statistics Seconds Bit errors 0 Errored blocks 0 Ethernet FEC statistics Errors FEC Corrected Errors 0 FEC Uncorrected Errors 0 FEC Corrected Errors Rate 0 FEC Uncorrected Errors Rate 0 PRBS Statistics : Disabled Interface transmit statistics: Disabled Logical interface ge-0/2/1.0 (Index 603) (SNMP ifIndex 620) Flags: Up SNMP-Traps 0x24024000 Encapsulation: Ethernet-Bridge Input packets : 329687 Output packets: 65 Protocol eth-switch, MTU: 1514
Test Conclusion	The optical transceiver was successfully recognized by the Juniper EX3400 PoE+, with all identification information accurately displayed in the outputs.

4.2 Transmission Distance Test

Test Conclusion	 In this test, OSP1250-CU01NCR (SFP-1G-T) modules were connected using 100 m Cat5 UTP PVC copper Ethernet cables (OPTCORE CAB-C5-UTP-PVC-100m) 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 a 100 m Cat5 copper Ethernet link.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2025-12-23	Preliminary test report