OPTCORE

Transceiver Test Report

PN: SFP-25G-SR

Test by: Maddy | Date: 2026/01/30

I. Test Purpose

By building realistic switch use cases, we test whether the SFP-25G-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	SFP-25G-SR	26A4405673	25G SFP28 SR 850nm 100m Transceiver
OPTCORE	SFP-25G-SR	26A4405674	25G SFP28 SR 850nm 100m Transceiver

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Arista	DCS-7160-48YC6	4.26.10.1M
OPTCORE	LC-LC-OM3-D70M	70m duplex LC OM3 patch cable

IV. Test Data

4.1 Compatibility Test

Test Data

localhost#show interfaces status

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		notconnect	1	full	25G	Not Present		
Et2		notconnect	1	full	25G	Not Present		
Et3		notconnect	1	full	25G	Not Present		
Et4		notconnect	1	full	25G	Not Present		
Et5		notconnect	1	full	25G	Not Present		
Et6		notconnect	1	full	25G	Not Present		
Et7		notconnect	1	full	25G	Not Present		
Et8		notconnect	1	full	25G	Not Present		
Et9		notconnect	1	full	25G	Not Present		
Et10		notconnect	1	full	25G	Not Present		
Et11		notconnect	1	full	25G	Not Present		
Et12		notconnect	1	full	25G	Not Present		
Et13		connected	1	full	25G	25GBASE-SR		
Et14		notconnect	1	full	25G	Not Present		
Et15		notconnect	1	full	25G	Not Present		
Et16		notconnect	1	full	25G	Not Present		
Et17		notconnect	1	full	25G	Not Present		
Et18		notconnect	1	full	25G	Not Present		
Et19		notconnect	1	full	25G	Not Present		
Et20		notconnect	1	full	25G	Not Present		
Et21		notconnect	1	full	25G	Not Present		
Et22		notconnect	1	full	25G	Not Present		
Et23		connected	1	full	25G	25GBASE-SR		
Et24		notconnect	1	full	25G	Not Present		
Et25		notconnect	1	full	25G	Not Present		
Et26		notconnect	1	full	25G	Not Present		
Et27		notconnect	1	full	25G	Not Present		
Et28		notconnect	1	full	25G	Not Present		
Et29		notconnect	1	full	25G	Not Present		
Et30		notconnect	1	full	25G	Not Present		
Et31		notconnect	1	full	25G	Not Present		
Et32		notconnect	1	full	25G	Not Present		
Et33		notconnect	1	full	25G	Not Present		
Et34		notconnect	1	full	25G	Not Present		
Et35		notconnect	1	full	25G	Not Present		
Et36		notconnect	1	full	25G	Not Present		

	Et37 notconnect 1 full 25G Not Present Et38 notconnect 1 full 25G Not Present Et39 notconnect 1 full 25G Not Present Et40 notconnect 1 full 25G Not Present Et41 notconnect 1 full 25G Not Present Et42 notconnect 1 full 25G Not Present Et43 notconnect 1 full 25G Not Present Et44 notconnect 1 full 25G Not Present Et45 notconnect 1 full 25G Not Present Et46 notconnect 1 full 25G Not Present Et47 notconnect 1 full 25G Not Present Et48 notconnect 1 full 25G Not Present Et49/1 notconnect 1 full 100G Not Present Et50/1 notconnect 1 full 100G Not Present Et51/1 notconnect 1 full 100G Not Present Et52/1 notconnect 1 full 100G Not Present Et53/1 notconnect 1 full 100G Not Present Et54/1 notconnect 1 full 100G Not Present Ma1 notconnect routed auto auto 10/100/1000
Test Conclusion	The optical transceiver was successfully recognized by the Arista DCS-7160-48YC6, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	localhost#show interfaces et13 transceiver detail mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable. A2D readouts (if they differ), are reported in parentheses. The threshold values are calibrated. Port / Temperature (Celsius) / High Alarm Threshold (Celsius) / High Warn Threshold (Celsius) / Low Alarm Threshold (Celsius) / Low Warn Threshold (Celsius) Et13 13.56 75.00 70.00 -10.00 -5.00 Port / Voltage (Volts) / High Alarm Threshold (Volts) / High Warn Threshold (Volts) / Low Alarm Threshold (Volts) / Low Warn Threshold (Volts) Et13 3.28 3.60 3.47 3.00 3.13 Port / Current (mA) / High Alarm Threshold (mA) / High Warn Threshold (mA) / Low Alarm Threshold (mA) / Low Warn Threshold (mA) Et13 7.01 15.00 12.00 2.00 4.00 High Alarm High Warn Low Alarm Low Warn

	Tx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et13 1.40 3.50 2.00 -8.00 -7.00 High Alarm High Warn Low Alarm Low Warn Rx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et13 2.43 3.00 2.00 -14.00 -13.00 localhost#show interfaces et23 transceiver detail mA: milliamperes, dBm: decibels (milliwatts), NA or N/A: not applicable. A2D readouts (if they differ), are reported in parentheses. The threshold values are calibrated. High Alarm High Warn Low Alarm Low Warn Temperature Threshold Threshold Threshold Threshold Port (Celsius) (Celsius) (Celsius) (Celsius) (Celsius) ------- ---------- ---------- ---------- ---------- ---------- Et23 14.48 75.00 70.00 -10.00 -5.00 High Alarm High Warn Low Alarm Low Warn Voltage Threshold Threshold Threshold Threshold Port (Volts) (Volts) (Volts) (Volts) (Volts) ------- ---------- ---------- ---------- ---------- ---------- Et23 3.26 3.60 3.47 3.00 3.13 High Alarm High Warn Low Alarm Low Warn Current Threshold Threshold Threshold Threshold Port (mA) (mA) (mA) (mA) (mA) ------- ---------- ---------- ---------- ---------- ---------- Et23 7.01 15.00 12.00 2.00 4.00 High Alarm High Warn Low Alarm Low Warn Tx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et23 1.00 3.50 2.00 -8.00 -7.00 High Alarm High Warn Low Alarm Low Warn Rx Power Threshold Threshold Threshold Threshold Port (dBm) (dBm) (dBm) (dBm) (dBm) ------- ---------- ---------- ---------- ---------- ---------- Et23 2.68 3.00 2.00 -14.00 -13.00
Test Conclusion	After testing, the above transceiver on the Arista DCS-7160-48YC6 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 70-meter OM3 fiber cables and 100-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.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-01-30	Preliminary test report