OPTCORE

AOC Cable Test Report

PN: QSFP-100G-AOC3M

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

I. Test Purpose

By building realistic switch use cases, we test whether the 100G QSFP28 AOC (QSFP-100G-AOC3M) cable 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 cable is compatible with the target switch
Digital Diagnostic Monitoring	Pass	Check whether the DDM parameters have exceeded the threshold value

III. Test Environment

3.1 Test Sample

Vendor Name	Part Number	Serial Number	Description
OPTCORE	QSFP-100G-AOC3M	25D4800786	100G QSFP Active Optical Cable

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Juniper	QFX5200-32C	19.2R3-S1.3 flex

IV. Test Data

4.1 Compatibility Test

Test Data	 {master:0} root> show interfaces statistics | match et-0/0 Physical interface: et-0/0/16, Enabled, Physical link is Up Logical interface et-0/0/16.0 (Index 557) (SNMP ifIndex 527) Physical interface: et-0/0/20, Enabled, Physical link is Up Logical interface et-0/0/20.0 (Index 558) (SNMP ifIndex 543)
Test Conclusion	The 100G QSFP28 AOC Cable was successfully recognized by the Juniper QFX5200-32C, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	{master:0} root> show interfaces diagnostics optics Physical interface: et-0/0/16 Module temperature : 28 degrees C / 83 degrees F Module voltage : 3.3220 V Module temperature high alarm : Off Module temperature low alarm : Off Module temperature high warning : Off Module temperature low warning : Off Module voltage high alarm : Off Module voltage low alarm : Off Module voltage high warning : Off Module voltage low warning : Off Module temperature high alarm threshold : 85 degrees C / 185 degrees F Module temperature low alarm threshold : -10 degrees C / 14 degrees F Module temperature high warning threshold : 70 degrees C / 158 degrees F Module temperature low warning threshold : 0 degrees C / 32 degrees F Module voltage high alarm threshold : 3.5990 V Module voltage low alarm threshold : 2.9000 V Module voltage high warning threshold : 3.4990 V Module voltage low warning threshold : 3.0990 V Laser bias current high alarm threshold : 14.999 mA Laser bias current low alarm threshold : 0.999 mA Laser bias current high warning threshold : 11.999 mA Laser bias current low warning threshold : 1.999 mA Laser output power high alarm threshold : 2.5119 mW / 4.00 dBm Laser output power low alarm threshold : 0.0871 mW / -10.60 dBm Laser output power high warning threshold : 1.7378 mW / 2.40 dBm Laser output power low warning threshold : 0.1738 mW / -7.60 dBm Laser rx power high alarm threshold : 2.5119 mW / 4.00 dBm Laser rx power low alarm threshold : 0.0158 mW / -18.01 dBm Laser rx power high warning threshold : 1.7378 mW / 2.40 dBm Laser rx power low warning threshold : 0.0316 mW / -15.00 dBm Lane 0 Laser bias current : 6.978 mA Laser output power : 1.099 mW / 0.41 dBm Laser receiver power : 1.274 mW / 1.05 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off

	Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 1 Laser bias current : 7.018 mA Laser output power : 1.105 mW / 0.43 dBm Laser receiver power : 1.259 mW / 1.00 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 2 Laser bias current : 7.010 mA Laser output power : 1.103 mW / 0.43 dBm Laser receiver power : 1.337 mW / 1.26 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 3 Laser bias current : 6.993 mA Laser output power : 1.101 mW / 0.42 dBm Laser receiver power : 1.291 mW / 1.11 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off

	Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Physical interface: et-0/0/20 Module temperature : 22 degrees C / 71 degrees F Module voltage : 3.3150 V Module temperature high alarm : Off Module temperature low alarm : Off Module temperature high warning : Off Module temperature low warning : Off Module voltage high alarm : Off Module voltage low alarm : Off Module voltage high warning : Off Module voltage low warning : Off Module temperature high alarm threshold : 85 degrees C / 185 degrees F Module temperature low alarm threshold : -10 degrees C / 14 degrees F Module temperature high warning threshold : 70 degrees C / 158 degrees F Module temperature low warning threshold : 0 degrees C / 32 degrees F Module voltage high alarm threshold : 3.5990 V Module voltage low alarm threshold : 2.9000 V Module voltage high warning threshold : 3.4990 V Module voltage low warning threshold : 3.0990 V Laser bias current high alarm threshold : 14.999 mA Laser bias current low alarm threshold : 0.999 mA Laser bias current high warning threshold : 11.999 mA Laser bias current low warning threshold : 1.999 mA Laser output power high alarm threshold : 2.5119 mW / 4.00 dBm Laser output power low alarm threshold : 0.0871 mW / -10.60 dBm Laser output power high warning threshold : 1.7378 mW / 2.40 dBm Laser output power low warning threshold : 0.1738 mW / -7.60 dBm Laser rx power high alarm threshold : 2.5119 mW / 4.00 dBm Laser rx power low alarm threshold : 0.0158 mW / -18.01 dBm Laser rx power high warning threshold : 1.7378 mW / 2.40 dBm Laser rx power low warning threshold : 0.0316 mW / -15.00 dBm Lane 0 Laser bias current : 6.993 mA Laser output power : 1.101 mW / 0.42 dBm Laser receiver power : 1.352 mW / 1.31 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off

	Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 1 Laser bias current : 6.986 mA Laser output power : 1.100 mW / 0.41 dBm Laser receiver power : 1.377 mW / 1.39 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 2 Laser bias current : 6.980 mA Laser output power : 1.099 mW / 0.41 dBm Laser receiver power : 1.316 mW / 1.19 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off Lane 3 Laser bias current : 7.006 mA Laser output power : 1.103 mW / 0.43 dBm Laser receiver power : 1.384 mW / 1.41 dBm Laser bias current high alarm : Off Laser bias current low alarm : Off Laser bias current high warning : Off Laser bias current low warning : Off Laser receiver power high alarm : Off Laser receiver power low alarm : Off Laser receiver power high warning : Off

	Laser receiver power low warning : Off Tx loss of signal functionality alarm : Off Rx loss of signal alarm : Off Tx laser disabled alarm : Off
Test Conclusion	After testing, the 100G QSFP28 AOC Cable on the Juniper QFX5200-32C DDM is normally identified, the parameters do not exceed thresholds, and the cable operates normally.

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-1-30	Preliminary test report