OPTCORE

AOC Cable Test Report

PN: SFP-10G-AOC3M

Test by: Maddy | Date: 2026/1/27

I. Test Purpose

By building realistic switch use cases, we test whether the SFP-10G-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	SFP-10G-AOC3M	25I3503101	10G SFP+ Active Optical Cable

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Juniper	EX3400 PoE+	JUNOS 18.2R3-S4.1

IV. Test Data

4.1 Compatibility Test

Test Data	 {master:0} root@E18-Juniper> show interfaces statistics | match xe-0/2/ Physical interface: xe-0/2/0, Enabled, Physical link is Up Logical interface xe-0/2/0.0 (Index 602) (SNMP ifIndex 611) Physical interface: xe-0/2/2, Enabled, Physical link is Up Logical interface xe-0/2/2.0 (Index 603) (SNMP ifIndex 619)
Test Conclusion	The SFP+ AOC Cable was successfully recognized by the Juniper EX3400 PoE+, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	{master:0} root@E18-Juniper> show interfaces diagnostics optics Physical interface: xe-0/2/0 Laser bias current : 6.070 mA Laser output power : 0.5320 mW / -2.74 dBm Module temperature : 20 degrees C / 67 degrees F Module voltage : 3.3340 V Laser receiver power : 0.6825 mW / -1.66 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 output power high alarm : Off Laser output power low alarm : Off Laser output power high warning : Off Laser output power low warning : Off 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 Laser rx power high alarm : Off Laser rx power low alarm : Off Laser rx power high warning : Off Laser rx power low warning : Off Laser bias current high alarm threshold : 15.000 mA Laser bias current low alarm threshold : 1.000 mA Laser bias current high warning threshold : 12.000 mA Laser bias current low warning threshold : 2.000 mA Laser output power high alarm threshold : 1.9950 mW / 3.00 dBm Laser output power low alarm threshold : 0.1000 mW / -10.00 dBm Laser output power high warning threshold : 1.2580 mW / 1.00 dBm Laser output power low warning threshold : 0.2510 mW / -6.00 dBm Module temperature high alarm threshold : 80 degrees C / 176 degrees F Module temperature low alarm threshold : -10 degrees C / 14 degrees F Module temperature high warning threshold : 75 degrees C / 167 degrees F Module temperature low warning threshold : -5 degrees C / 23 degrees F Module voltage high alarm threshold : 3.600 V Module voltage low alarm threshold : 3.000 V Module voltage high warning threshold : 3.500 V Module voltage low warning threshold : 3.100 V

	Laser rx power high alarm threshold : 1.9953 mW / 3.00 dBm Laser rx power low alarm threshold : 0.0282 mW / -15.50 dBm Laser rx power high warning threshold : 1.2589 mW / 1.00 dBm Laser rx power low warning threshold : 0.0355 mW / -14.50 dBm Physical interface: xe-0/2/2 Laser bias current : 6.042 mA Laser output power : 0.5320 mW / -2.74 dBm Module temperature : 19 degrees C / 65 degrees F Module voltage : 3.3040 V Laser receiver power : 0.6477 mW / -1.89 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 output power high alarm : Off Laser output power low alarm : Off Laser output power high warning : Off Laser output power low warning : Off 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 Laser rx power high alarm : Off Laser rx power low alarm : Off Laser rx power high warning : Off Laser rx power low warning : Off Laser bias current high alarm threshold : 15.000 mA Laser bias current low alarm threshold : 1.000 mA Laser bias current high warning threshold : 12.000 mA Laser bias current low warning threshold : 2.000 mA Laser output power high alarm threshold : 1.9950 mW / 3.00 dBm Laser output power low alarm threshold : 0.1000 mW / -10.00 dBm Laser output power high warning threshold : 1.2580 mW / 1.00 dBm Laser output power low warning threshold : 0.2510 mW / -6.00 dBm Module temperature high alarm threshold : 80 degrees C / 176 degrees F Module temperature low alarm threshold : -10 degrees C / 14 degrees F Module temperature high warning threshold : 75 degrees C / 167 degrees F Module temperature low warning threshold : -5 degrees C / 23 degrees F Module voltage high alarm threshold : 3.600 V Module voltage low alarm threshold : 3.000 V Module voltage high warning threshold : 3.500 V

	Module voltage low warning threshold : 3.100 V Laser rx power high alarm threshold : 1.9953 mW / 3.00 dBm Laser rx power low alarm threshold : 0.0282 mW / -15.50 dBm Laser rx power high warning threshold : 1.2589 mW / 1.00 dBm Laser rx power low warning threshold : 0.0355 mW / -14.50 dBm
Test Conclusion	After testing, the The SFP+ AOC Cable on the Juniper EX3400 PoE+ 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	2026-1-27	Preliminary test report