

AOC Cable Test Report

PN: SFP-25G-AOC1M

I. Test Purpose

By building realistic switch use cases, we test whether the SFP-25G-AOC1M 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-25G-AOC1M	2011184480	25G SFP28 Active Optical Cable

3.2 Test Equipment Used

Equipment Brand	Equipment Model	Software Version/Note
Extreme	VSP-7400-48Y-8C	8.0.5.1

IV. Test Data

4.1 Compatibility Test

Test Data	
	<pre> HQ-DISTRO-TA-MELSW016006:1#show interfaces gigabitEthernet ***** Command Execution Time: Tue Jan 27 02:49:01 2026 UTC ***** ===== Port Interface ===== PORT LINK PORT PHYSICAL STATUS NUM INDEX DESCRIPTION TRAP LOCK MTU ADDRESS ADMIN OPERATE ----- 1/1 192 25GbNone true false 1950 20:9e:f7:8d:84:00 up down </pre>

1/2	193	25GbNone	true	false	1950	20:9e:f7:8d:84:01	up	down
1/3	194	25GbNone	true	false	1950	20:9e:f7:8d:84:02	up	down
1/4	195	25GbNone	true	false	1950	20:9e:f7:8d:84:03	up	down
1/5	196	25GbNone	true	false	1950	20:9e:f7:8d:84:04	up	down
1/6	197	25GbNone	true	false	1950	20:9e:f7:8d:84:05	up	down
1/7	198	25GbNone	true	false	1950	20:9e:f7:8d:84:06	up	down
1/8	199	25GbNone	true	false	1950	20:9e:f7:8d:84:07	up	down
1/9	200	25GbNone	true	false	1950	20:9e:f7:8d:84:08	up	down
1/10	201	25GbNone	true	false	1950	20:9e:f7:8d:84:09	up	down
1/11	202	25GbNone	true	false	1950	20:9e:f7:8d:84:0a	up	down
1/12	203	25GbNone	true	false	1950	20:9e:f7:8d:84:0b	up	down
1/13	204	25GbNone	true	false	1950	20:9e:f7:8d:84:0c	up	down
1/14	205	25GbNone	true	false	1950	20:9e:f7:8d:84:0d	up	down
1/15	206	25GbNone	true	false	1950	20:9e:f7:8d:84:0e	up	down
1/16	207	25GbNone	true	false	1950	20:9e:f7:8d:84:0f	up	down
1/17	208	25GbSR	true	false	1950	20:9e:f7:8d:84:10	up	up
1/18	209	25GbNone	true	false	1950	20:9e:f7:8d:84:11	up	down
1/19	210	25GbNone	true	false	1950	20:9e:f7:8d:84:12	up	down
1/20	211	25GbNone	true	false	1950	20:9e:f7:8d:84:13	up	down
1/21	212	25GbNone	true	false	1950	20:9e:f7:8d:84:14	up	down
1/22	213	25GbNone	true	false	1950	20:9e:f7:8d:84:15	up	down
1/23	214	25GbNone	true	false	1950	20:9e:f7:8d:84:16	up	down
1/24	215	25GbNone	true	false	1950	20:9e:f7:8d:84:17	up	down
1/25	216	25GbNone	true	false	1950	20:9e:f7:8d:84:18	up	down
1/26	217	25GbNone	true	false	1950	20:9e:f7:8d:84:19	up	down
1/27	218	25GbSR	true	false	1950	20:9e:f7:8d:84:1a	up	up
1/28	219	25GbNone	true	false	1950	20:9e:f7:8d:84:1b	up	down
1/29	220	25GbNone	true	false	1950	20:9e:f7:8d:84:1c	up	down
1/30	221	25GbNone	true	false	1950	20:9e:f7:8d:84:1d	up	down
1/31	222	25GbNone	true	false	1950	20:9e:f7:8d:84:1e	up	down
1/32	223	25GbNone	true	false	1950	20:9e:f7:8d:84:1f	up	down
1/33	224	25GbNone	true	false	1950	20:9e:f7:8d:84:20	up	down
1/34	225	25GbNone	true	false	1950	20:9e:f7:8d:84:21	up	down
1/35	226	25GbNone	true	false	1950	20:9e:f7:8d:84:22	up	down
1/36	227	25GbNone	true	false	1950	20:9e:f7:8d:84:23	up	down
1/37	228	25GbNone	true	false	1950	20:9e:f7:8d:84:24	up	down
1/38	229	25GbNone	true	false	1950	20:9e:f7:8d:84:25	up	down
1/39	230	25GbNone	true	false	1950	20:9e:f7:8d:84:26	up	down
1/40	231	25GbNone	true	false	1950	20:9e:f7:8d:84:27	up	down
1/41	232	25GbNone	true	false	1950	20:9e:f7:8d:84:28	up	down
1/42	233	25GbNone	true	false	1950	20:9e:f7:8d:84:29	up	down
1/43	234	25GbNone	true	false	1950	20:9e:f7:8d:84:2a	up	down
1/44	235	25GbNone	true	false	1950	20:9e:f7:8d:84:2b	up	down
1/45	236	25GbNone	true	false	1950	20:9e:f7:8d:84:2c	up	down
1/46	237	25GbNone	true	false	1950	20:9e:f7:8d:84:2d	up	down

	1/47	238	25GbNone	true	false	1950	20:9e:f7:8d:84:2e	up	down
	1/48	239	25GbNone	true	false	1950	20:9e:f7:8d:84:2f	up	down
	1/49	256	100GbNone	true	false	1950	20:9e:f7:8d:84:30	up	down
	1/50	257	100GbNone	true	false	1950	20:9e:f7:8d:84:31	up	down
	1/51	258	100GbNone	true	false	1950	20:9e:f7:8d:84:32	up	down
	1/52	259	100GbNone	true	false	1950	20:9e:f7:8d:84:33	up	down
	1/53	260	100GbNone	true	false	1950	20:9e:f7:8d:84:34	up	down
	1/54	261	100GbNone	true	false	1950	20:9e:f7:8d:84:35	up	down
	1/s1	320	10GbInsight	true	false	1950	20:9e:f7:8d:84:38	down	down
Test Conclusion	The SFP28 AOC Cable was successfully recognized by the Extreme VSP-7400-48Y-8C, with all identification information accurately displayed in the outputs.								

4.2 Digital Diagnostic Monitoring

Test Data	<pre> THQ-DISTRO-TA-MELSW016006:1#show pluggable-optical-modules detail ***** Command Execution Time: Tue Jan 27 02:49:43 2026 UTC ***** ===== == Pluggable Optical Module Info 1/17 Detail ===== == Port: 1/17 Type: 25GbSR DDM Supported : TRUE Vendor Name : OPTCORE Partnumber : SFP-25G-AOC1M Vendor REV : Rev1 Vendor SN : 2011184480 Vendor Date : 11/23/20 Wavelength : 850.00 nm Digital Diagnostic Interface Supported Optics Status : Ok Calibration : Internal RX Power Measurement : Average Auxiliary 1 Monitoring : Not Implemented Auxiliary 2 Monitoring : Not Implemented ----- LOW_ALARM LOW_WARN ACTUAL HIGH_WARN HIGH_ALARM THRESHOLD THRESHOLD THRESHOLD VALUE THRESHOLD THRESHOLD STATUS ----- </pre>
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	Temp(C)	-10.0	0.0	16.0	70.0	80.0	Normal
	Voltage(V)	2.9700	3.1350	3.2820	3.4650	3.6300	Normal
	Bias(mA)	0.0	2.0	6.1060	12.0	15.0	Normal
	TxPower(dBm)	-9.0	-6.0	1.8000	3.0	3.5000	Normal
	RxPower(dBm)	-13.0	-10.0	2.4000	3.0	3.5000	Normal
=====							
==							
Pluggable Optical Module Info 1/27 Detail							
=====							
==							
Port: 1/27							
Type: 25GbSR							
DDM Supported : TRUE							
Vendor Name : OPTCORE				Partnumber : SFP-25G-AOC1M			
Vendor REV : Rev1				Vendor SN : 2011184480			
Vendor Date : 11/23/20							
Wavelength : 850.00 nm							
Digital Diagnostic Interface Supported							
Optics Status : Ok							
Calibration : Internal							
RX Power Measurement : Average							
Auxiliary 1 Monitoring : Not Implemented							
Auxiliary 2 Monitoring : Not Implemented							

		LOW_ALARM	LOW_WARN	ACTUAL	HIGH_WARN	HIGH_ALARM	THRESHOLD
		THRESHOLD	THRESHOLD	VALUE	THRESHOLD	THRESHOLD	STATUS

	Temp(C)	-10.0	0.0	15.0	70.0	80.0	Normal
	Voltage(V)	2.9700	3.1350	3.2820	3.4650	3.6300	Normal
	Bias(mA)	0.0	2.0	6.1300	12.0	15.0	Normal
	TxPower(dBm)	-9.0	-6.0	1.8000	3.0	3.5000	Normal
	RxPower(dBm)	-13.0	-10.0	2.7000	3.0	3.5000	Normal
Test Conclusion	After testing, the The SFP28 AOC Cable on the Extreme VSP-7400-48Y-8C 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

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