

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
Mellanox	SN2410	3.10.4006

IV. Test Data

4.1 Compatibility Test

Test Data																																																											
	<pre>switch-3858d4 [standalone: master] # show interfaces status</pre> <hr/> <table border="1"> <thead> <tr> <th>Port</th> <th>Operational state</th> <th>Admin</th> <th>Speed</th> <th>MTU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>mgmt0</td> <td>Down</td> <td>Enabled</td> <td>UNKNOWN</td> <td>1500-</td> <td></td> </tr> <tr> <td>mgmt1</td> <td>Down</td> <td>Enabled</td> <td>UNKNOWN</td> <td>1500-</td> <td></td> </tr> <tr> <td>Eth1/1</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> <tr> <td>Eth1/2</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> <tr> <td>Eth1/3</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> <tr> <td>Eth1/4</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> <tr> <td>Eth1/5</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> <tr> <td>Eth1/6</td> <td>Down</td> <td>Enabled</td> <td>Unknown</td> <td>9216-</td> <td></td> </tr> </tbody> </table>						Port	Operational state	Admin	Speed	MTU	Description	mgmt0	Down	Enabled	UNKNOWN	1500-		mgmt1	Down	Enabled	UNKNOWN	1500-		Eth1/1	Down	Enabled	Unknown	9216-		Eth1/2	Down	Enabled	Unknown	9216-		Eth1/3	Down	Enabled	Unknown	9216-		Eth1/4	Down	Enabled	Unknown	9216-		Eth1/5	Down	Enabled	Unknown	9216-		Eth1/6	Down	Enabled	Unknown	9216-
Port	Operational state	Admin	Speed	MTU	Description																																																						
mgmt0	Down	Enabled	UNKNOWN	1500-																																																							
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Eth1/1	Down	Enabled	Unknown	9216-																																																							
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Eth1/4	Down	Enabled	Unknown	9216-																																																							
Eth1/5	Down	Enabled	Unknown	9216-																																																							
Eth1/6	Down	Enabled	Unknown	9216-																																																							

Eth1/7	Down	Enabled	Unknown	9216-
Eth1/8	Down	Enabled	Unknown	9216-
Eth1/9	Down	Enabled	Unknown	9216-
Eth1/10	Down	Enabled	Unknown	9216-
Eth1/11	Down	Enabled	Unknown	9216-
Eth1/12	Down	Enabled	Unknown	9216-
Eth1/13	Up	Enabled	25G	9216 -
Eth1/14	Down	Enabled	Unknown	9216-
Eth1/15	Down	Enabled	Unknown	9216-
Eth1/16	Down	Enabled	Unknown	9216-
Eth1/17	Down	Enabled	Unknown	9216--
Eth1/18	Down	Enabled	Unknown	9216-
Eth1/19	Down	Enabled	Unknown	9216-
Eth1/20	Down	Enabled	Unknown	9216-
Eth1/21	Down	Enabled	Unknown	9216-
Eth1/22	Down	Enabled	Unknown	9216-
Eth1/23	Down	Enabled	Unknown	9216-
Eth1/24	Down	Enabled	Unknown	9216-
Eth1/25	Up	Enabled	25G	9216-
Eth1/26	Down	Enabled	Unknown	9216-
Eth1/27	Down	Enabled	Unknown	9216-
Eth1/28	Down	Enabled	Unknown	9216-
Eth1/29	Down	Enabled	Unknown	9216-
Eth1/30	Down	Enabled	Unknown	9216-
Eth1/31	Down	Enabled	Unknown	9216-
Eth1/32	Down	Enabled	Unknown	9216-
Eth1/33	Down	Enabled	Unknown	9216-
Eth1/34	Down	Enabled	Unknown	9216-
Eth1/35	Down	Enabled	Unknown	9216-
Eth1/36	Down	Enabled	Unknown	9216-
Eth1/37	Down	Enabled	Unknown	9216-
Eth1/38	Down	Enabled	Unknown	9216-
Eth1/39	Down	Enabled	Unknown	9216-
Eth1/40	Down	Enabled	Unknown	9216-
Eth1/41	Down	Enabled	Unknown	9216-
Eth1/42	Down	Enabled	Unknown	9216-
Eth1/43	Down	Enabled	Unknown	9216-
Eth1/44	Down	Enabled	Unknown	9216-
Eth1/45	Down	Enabled	Unknown	9216-
Eth1/46	Down	Enabled	Unknown	9216-
Eth1/47	Down	Enabled	Unknown	9216-
Eth1/48	Down	Enabled	Unknown	9216-
Eth1/49/1	Down	Enabled	Unknown	9216-
Eth1/49/2	Down	Enabled	Unknown	9216-
Eth1/49/3	Down	Enabled	Unknown	9216-

	<p>Eth1/49/4 Down Enabled Unknown 9216-</p> <p>Eth1/52 Down Enabled Unknown 9216-</p> <p>Eth1/53 Down Enabled Unknown 9216-</p> <p>Eth1/54 Down Enabled Unknown 9216-</p> <p>Eth1/55 Down Enabled Unknown 9216-</p> <p>Eth1/56 Down Enabled Unknown 9216</p>
Test Conclusion	The SFP28 AOC Cable was successfully recognized by the Mellanox SN2410, with all identification information accurately displayed in the outputs.

4.2 Digital Diagnostic Monitoring

Test Data	<pre>switch-3858d4 [standalone: master] # show interfaces ethernet 1/13 transceiver diagnostics</pre> <p>Port 1/13 transceiver diagnostic data:</p> <p>Temperature (-127C to +127C):</p> <p>Temperature : 16 C</p> <p>Hi Temp Alarm Thresh : 80 C</p> <p>Low Temp Alarm Thresh: -10 C</p> <p>Temperature Alarm : None</p> <p>Voltage (0 to 6.5535 V):</p> <p>Voltage : 3.30600 V</p> <p>Hi Volt Alarm Thresh : 3.63000 V</p> <p>Low Volt Alarm Thresh: 2.97000 V</p> <p>Voltage Alarm : None</p> <p>Tx Bias Current (0 to 131 mA):</p> <p>Ch1 Tx Current : NA</p> <p>Hi Tx Crnt Alarm Thresh : NA</p> <p>Low Tx Crnt Alarm Thresh: NA</p> <p>Ch1 Tx Current Alarm : NA</p> <p>Tx Power (0 mW to 6.5535 mW / 8.1647 dBm):</p> <p>Ch1 Tx Power : 1.52210 mW / 1.82443 dBm</p> <p>Hi Tx Power Alarm Thresh : 2.23870 mW / 3.49996 dBm</p> <p>Low Tx Power Alarm Thresh: 0.12580 mW / -9.00319 dBm</p> <p>Ch1 Tx Power Alarm : None</p> <p>Rx Power (0 mW to 6.5535 mW / 8.1647 dBm):</p> <p>Ch1 Rx Power : 1.75370 mW / 2.43955 dBm</p> <p>Hi Rx Power Alarm Thresh : 2.23870 mW / 3.49996 dBm</p> <p>Low Rx Power Alarm Thresh: 0.05010 mW / -13.00162 dBm</p> <p>Ch1 Rx Power Alarm : None</p> <p>Vendor Date Code (dd-mm-yyyy): 23-11-2020</p>
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	<pre> switch-3858d4 [standalone: master] # show interfaces ethernet 1/25 transceiver diagnostics Port 1/25 transceiver diagnostic data: Temperature (-127C to +127C): Temperature : 16 C Hi Temp Alarm Thresh : 80 C Low Temp Alarm Thresh: -10 C Temperature Alarm : None Voltage (0 to 6.5535 V): Voltage : 3.31000 V Hi Volt Alarm Thresh : 3.63000 V Low Volt Alarm Thresh: 2.97000 V Voltage Alarm : None Tx Bias Current (0 to 131 mA): Ch1 Tx Current : NA Hi Tx Crnt Alarm Thresh : NA Low Tx Crnt Alarm Thresh: NA Ch1 Tx Current Alarm : NA Tx Power (0 mW to 6.5535 mW / 8.1647 dBm): Ch1 Tx Power : 1.53570 mW / 1.86306 dBm Hi Tx Power Alarm Thresh : 2.23870 mW / 3.49996 dBm Low Tx Power Alarm Thresh: 0.12580 mW / -9.00319 dBm Ch1 Tx Power Alarm : None Rx Power (0 mW to 6.5535 mW / 8.1647 dBm): Ch1 Rx Power : 1.86650 mW / 2.71028 dBm Hi Rx Power Alarm Thresh : 2.23870 mW / 3.49996 dBm Low Rx Power Alarm Thresh: 0.05010 mW / -13.00162 dBm Ch1 Rx Power Alarm : None Vendor Date Code (dd-mm-yyyy): 23-11-2020 </pre>
<p>Test Conclusion</p>	<p>After testing, the The SFP28 AOC Cable on the Mellanox SN2410 DDM is normally identified, the parameters do not exceed thresholds, and the cable operates normally.</p>

Appendix A. Document Revision

Version No	Date	Description
V1.0/EN	2026-1-27	Preliminary test report

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