

# AOC Cable Test Report

PN: SFP-10G-AOC3M

## 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
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-
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mgmt0	Down	Enabled	UNKNOWN	1500-																																																							
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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	10G	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	10G	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	Up	Enabled	25G	9216-	
Eth1/49/2	Up	Enabled	25G	9216-	
Eth1/49/3	Up	Enabled	25G	9216-	

	<pre> Eth1/49/4 Up Enabled 25G 9216- Eth1/52 Down Enabled Unknown 9216- Eth1/53 Down Enabled Unknown 9216- Eth1/54 Down Enabled Unknown 9216- Eth1/55 Down Enabled Unknown 9216- Eth1/56 Down Enabled Unknown 9216-                 </pre>
Test Conclusion	The SFP+ 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 1/25 transceiver diagnostics Port 1/25 transceiver diagnostic data:   Temperature (-127C to +127C):     Temperature           : 18 C     Hi Temp Alarm Thresh : 80 C     Low Temp Alarm Thresh: -10 C     Temperature Alarm    : None    Voltage (0 to 6.5535 V):     Voltage                : 3.30310 V     Hi Volt Alarm Thresh  : 3.60000 V     Low Volt Alarm Thresh: 3.00000 V     Voltage Alarm         : None    Tx Bias Current (0 to 131 mA):     Ch1 Tx Current        : 6.05800 mA     Hi Tx Crnt Alarm Thresh : 15.00000 mA     Low Tx Crnt Alarm Thresh: 1.00000 mA     Ch1 Tx Current Alarm  : None    Tx Power (0 mW to 6.5535 mW / 8.1647 dBm):     Ch1 Tx Power          : 0.53250 mW / -2.73680 dBm     Hi Tx Power Alarm Thresh : 1.99530 mW / 3.00008 dBm     Low Tx Power Alarm Thresh: 0.10000 mW / -10.00000 dBm     Ch1 Tx Power Alarm    : None    Rx Power (0 mW to 6.5535 mW / 8.1647 dBm):     Ch1 Rx Power          : 0.65030 mW / -1.86886 dBm     Hi Rx Power Alarm Thresh : 1.99530 mW / 3.00008 dBm     Low Rx Power Alarm Thresh: 0.02820 mW / -15.49751 dBm     Ch1 Rx Power Alarm    : None                 </pre>
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	<p>Vendor Date Code (dd-mm-yyyy): 17-09-2025</p> <p>switch-3858d4 [standalone: master] # show interfaces ethernet 1/13 transceiver diagnostics</p> <p>Port 1/13 transceiver diagnostic data:</p> <p>Temperature (-127C to +127C):</p> <p>Temperature : 17 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 : 3.33260 V</p> <p>Hi Volt Alarm Thresh : 3.60000 V</p> <p>Low Volt Alarm Thresh: 3.00000 V</p> <p>Voltage Alarm : None</p> <p>Tx Bias Current (0 to 131 mA):</p> <p>Ch1 Tx Current : 6.07400 mA</p> <p>Hi Tx Crnt Alarm Thresh : 15.00000 mA</p> <p>Low Tx Crnt Alarm Thresh: 1.00000 mA</p> <p>Ch1 Tx Current Alarm : None</p> <p>Tx Power (0 mW to 6.5535 mW / 8.1647 dBm):</p> <p>Ch1 Tx Power : 0.53270 mW / -2.73517 dBm</p> <p>Hi Tx Power Alarm Thresh : 1.99530 mW / 3.00008 dBm</p> <p>Low Tx Power Alarm Thresh: 0.10000 mW / -10.00000 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 : 0.68260 mW / -1.65834 dBm</p> <p>Hi Rx Power Alarm Thresh : 1.99530 mW / 3.00008 dBm</p> <p>Low Rx Power Alarm Thresh: 0.02820 mW / -15.49751 dBm</p> <p>Ch1 Rx Power Alarm : None</p> <p>Vendor Date Code (dd-mm-yyyy): 17-09-2025</p>
<p>Test Conclusion</p>	<p>After testing, the The SFP+ 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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