

# AOC Cable Test Report

PN: QSFP-100G-AOC3M

### 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	24C4801128	100G QSFP 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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Eth1/1	Down	Enabled	Unknown	9216-																																																							
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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	Down	Enabled	Unknown	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	Down	Enabled	Unknown	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	Up	Enabled	100G	9216	-	
Eth1/52	Down	Enabled	Unknown	9216-		
Eth1/53	Up	Enabled	100G	9216	-	

	<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 100G QSFP28 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 1/49 transceiver diagnostics  Port 1/49 transceiver diagnostic data:   Temperature (-127C to +127C):     Temperature           : 16 C     Hi Temp Alarm Thresh : 85 C     Low Temp Alarm Thresh: -10 C     Temperature Alarm     : None    Voltage (0 to 6.5535 V):     Voltage                : 3.30400 V     Hi Volt Alarm Thresh  : 3.60000 V     Low Volt Alarm Thresh: 2.90000 V     Voltage Alarm         : None    Tx Bias Current (0 to 131 mA):     Ch1 Tx Current        : 6.98000 mA     Ch2 Tx Current        : 7.02000 mA     Ch3 Tx Current        : 7.00000 mA     Ch4 Tx Current        : 6.99400 mA     Hi Tx Crnt Alarm Thresh : 15.00000 mA     Low Tx Crnt Alarm Thresh: 1.00000 mA     Ch1 Tx Current Alarm  : None     Ch2 Tx Current Alarm  : None     Ch3 Tx Current Alarm  : None     Ch4 Tx Current Alarm  : None    Tx Power (0 mW to 6.5535 mW / 8.1647 dBm):     Ch1 Tx Power          : 1.09880 mW / 0.40919 dBm     Ch2 Tx Power          : 1.10510 mW / 0.43402 dBm     Ch3 Tx Power          : 1.10200 mW / 0.42182 dBm     Ch4 Tx Power          : 1.10100 mW / 0.41787 dBm     Hi Tx Power Alarm Thresh : 2.51190 mW / 4.00002 dBm     Low Tx Power Alarm Thresh: 0.08710 mW / -10.59982 dBm     Ch1 Tx Power Alarm    : None     Ch2 Tx Power Alarm    : None         </pre>
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Ch3 Tx Power Alarm : None  
Ch4 Tx Power Alarm : None

Rx Power (0 mW to 6.5535 mW / 8.1647 dBm):

Ch1 Rx Power : 1.29100 mW / 1.10926 dBm  
Ch2 Rx Power : 1.28260 mW / 1.08091 dBm  
Ch3 Rx Power : 1.37100 mW / 1.37037 dBm  
Ch4 Rx Power : 1.29730 mW / 1.13040 dBm

Hi Rx Power Alarm Thresh : 2.51190 mW / 4.00002 dBm  
Low Rx Power Alarm Thresh: 0.01580 mW / -18.01343 dBm

Ch1 Rx Power Alarm : None  
Ch2 Rx Power Alarm : None  
Ch3 Rx Power Alarm : None  
Ch4 Rx Power Alarm : None

Vendor Date Code (dd-mm-yyyy): 14-03-2023

switch-3858d4 [standalone: master] # show interfaces ethernet 1/53 transceiver diagnostics

Port 1/53 transceiver diagnostic data:

Temperature (-127C to +127C):

Temperature : 16 C  
Hi Temp Alarm Thresh : 85 C  
Low Temp Alarm Thresh: -10 C  
Temperature Alarm : None

Voltage (0 to 6.5535 V):

Voltage : 3.30600 V  
Hi Volt Alarm Thresh : 3.60000 V  
Low Volt Alarm Thresh: 2.90000 V  
Voltage Alarm : None

Tx Bias Current (0 to 131 mA):

Ch1 Tx Current : 6.98600 mA  
Ch2 Tx Current : 6.98000 mA  
Ch3 Tx Current : 7.00600 mA  
Ch4 Tx Current : 7.00000 mA

Hi Tx Crnt Alarm Thresh : 15.00000 mA  
Low Tx Crnt Alarm Thresh: 1.00000 mA

Ch1 Tx Current Alarm : None  
Ch2 Tx Current Alarm : None  
Ch3 Tx Current Alarm : None  
Ch4 Tx Current Alarm : None

Tx Power (0 mW to 6.5535 mW / 8.1647 dBm):

Ch1 Tx Power : 1.09980 mW / 0.41314 dBm

	<p>Ch2 Tx Power : 1.09880 mW / 0.40919 dBm</p> <p>Ch3 Tx Power : 1.10290 mW / 0.42536 dBm</p> <p>Ch4 Tx Power : 1.10200 mW / 0.42182 dBm</p> <p>Hi Tx Power Alarm Thresh : 2.51190 mW / 4.00002 dBm</p> <p>Low Tx Power Alarm Thresh: 0.08710 mW / -10.59982 dBm</p> <p>Ch1 Tx Power Alarm : None</p> <p>Ch2 Tx Power Alarm : None</p> <p>Ch3 Tx Power Alarm : None</p> <p>Ch4 Tx Power Alarm : None</p> <p>Rx Power (0 mW to 6.5535 mW / 8.1647 dBm):</p> <p>Ch1 Rx Power : 1.42990 mW / 1.55306 dBm</p> <p>Ch2 Rx Power : 1.46990 mW / 1.67288 dBm</p> <p>Ch3 Rx Power : 1.39200 mW / 1.43639 dBm</p> <p>Ch4 Rx Power : 1.46360 mW / 1.65422 dBm</p> <p>Hi Rx Power Alarm Thresh : 2.51190 mW / 4.00002 dBm</p> <p>Low Rx Power Alarm Thresh: 0.01580 mW / -18.01343 dBm</p> <p>Ch1 Rx Power Alarm : None</p> <p>Ch2 Rx Power Alarm : None</p> <p>Ch3 Rx Power Alarm : None</p> <p>Ch4 Rx Power Alarm : None</p> <p>Vendor Date Code (dd-mm-yyyy): 14-03-2023</p>
Test Conclusion	After testing, the 100G QSFP28 AOC Cable on the Mellanox SN2410 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

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