



# FCC Test Report

FCC ID : SWX-UAPACSHD  
Contains FCC ID : SWX-M11DB  
Equipment : UniFi Access Point  
Brand Name : UBIQUITI  
Model Name : UAP-AC-SHD  
Applicant/  
Manufacturer : Ubiquiti Networks, Inc.  
685 Third Avenue, 27th Floor New York,  
New York 10017 USA  
Standard : 47 CFR FCC Part 15.247

This report was evaluated for permissive change. We, SPORTON, would like to declare that the evaluation in accordance to KDB 178919 D01 Permissive Change Policy v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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## **Table of Contents**

<b>HISTORY OF THIS TEST REPORT .....</b>	<b>3</b>
<b>SUMMARY OF TEST RESULT .....</b>	<b>4</b>
<b>1 GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1 Information.....	5
<b>PHOTOGRAPHS OF EUT V01</b>	





### Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203

<b>Declaration of Conformity:</b>
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.
<b>Comments and explanations:</b>
None

Reviewed by: Howard Lee

Report Producer: Michelle Tsai

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

For 2.4GHz WLAN function

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
1	1	-	-	PIFA Antenna	N/A	6
2	2	-	-	PIFA Antenna	N/A	6
3	3	-	-	PIFA Antenna	N/A	6
4	4	-	-	PIFA Antenna	N/A	6

For 5GHz WLAN function

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
5	1	-	-	PIFA Antenna	N/A	6
6	2	-	-	PIFA Antenna	N/A	6
7	3	-	-	PIFA Antenna	N/A	6
8	4	-	-	PIFA Antenna	N/A	6

For Bluetooth function

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
9	1	-	-	PIFA Antenna	N/A	1

For 2.4G & 5G WLAN function (Contains ID: SWX-M11DB)

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)	
						2.4GHz	5GHz
10	1	-	-	Internal antenna	i-Pex	4	4



Note: The EUT has ten antennas.

**For 2.4GHz WLAN function**

**IEEE 802.11b/g/n/ac mode (4TX/4RX):** The module has four chains.

Chain 1, Chain 2, Chain 3 and Chain 4 can be used as transmitting/receiving antenna.

Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

**For 5GHz WLAN function**

**IEEE 802.11a/n/ac mode (4TX/4RX):** The module has four chains.

Chain 1, Chain 2, Chain 3 and Chain 4 can be used as transmitting/receiving antenna.

Chain 1, Chain 2, Chain 3 and Chain 4 could transmit/receive simultaneously.

**For Bluetooth function:** The module has one chain only.

Chain 1 can be used as transmitting/receiving antenna.

Chain 1 could transmit/receive simultaneously.

**For 2.4G & 5G WLAN function (Contains ID: SWX-M11DB):** The module has one chain only.

Chain 1 can be used as transmitting/receiving antenna.

Chain 1 could transmit/receive simultaneously.

**1.1.3 Table for Permissive Change**

This product is an extension of original one reported under Sporton project number: FR661623-07AE  
Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Contains FCC ID: SWX-M11DB	N/A

—————THE END—————