




FCC RADIO TEST REPORT

FCC ID : SWX-UAPXG
Equipment : UniFi XG
Brand Name : UBIQUITI
Model Name : UAP-XG
Applicant : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York, New York
10017 USA
Manufacturer : Ubiquiti Networks, Inc.
685 Third Avenue, 27th Floor New York, New York
10017 USA
Standard : 47 CFR FCC Part 15 Subpart C § 15.247

The product was received on May 02, 2017, and testing was started from Sep. 06, 2017 and completed on Sep. 22, 2017. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart C, KDB558074 D01 v04 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 variant 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: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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Photographs of EUT v01



1. General Information

1.1. Product Details

Items	Description
Power Type	From PoE
Modulation	DSSS
Data Rate (Mbps)	GFSK: 1
Frequency Range	2402 ~ 2480MHz
Channel Number	40 (37 hopping + 3 advertising channel)
Carrier Frequencies	Please refer to section 1.4
Antenna	Please refer to section 1.3
Note 1: This device contains transmitter 2.4GHz WLAN module FCC ID: SWX-M442G, 5GHz Band 1~ Band 2 module FCC ID: SWX-M445GL, 5GHz Band 3~ Band 4 module FCC ID: SWX-M445GH and 2.4GHz/5GHz full band module FCC ID: SWX-M11DB.	

1.2. Accessories

Support Unit	Brand	Model	Rating
PoE	UBIQUITI	GP-H480-050G	Input: 100-240V~50/60Hz, MAX 0.75A(0.75A) Output: 48V, 0.5A(0.5A)
Others			
Power cord*1, Non- Shielded 0.6m			
Installing of Package *1			
Mounting Plate*1			
Ceiling Backing Plate*1			



1.3. Table for Filed Antenna

For Radio 1: 2.4GHz WLAN function (module FCC ID: SWX-M442G)

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

For Radio 2: 5GHz WLAN Band 1~ Band 2 function (module FCC ID: SWX-M445GL) / Radio 3: 5GHz WLAN Band 3~ Band 4 function (module FCC ID: SWX-M445GH)

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
5	1	-	-	Internal Antenna	N/A	8
6	2	-	-	Internal Antenna	N/A	8
7	3	-	-	Internal Antenna	N/A	8
8	4	-	-	Internal Antenna	N/A	8
9	1	-	-	Internal Antenna	N/A	8
10	2	-	-	Internal Antenna	N/A	8
11	3	-	-	Internal Antenna	N/A	8
12	4	-	-	Internal Antenna	N/A	8

For Radio 4: 2.4GHz WLAN function, 5GHz WLAN Band 1~ Band 4 function (FCC ID: SWX-M11DB)

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)	
						2.4GHz	5GHz
14	1	-	-	Internal Antenna	N/A	4	4

For Radio 5: Bluetooth function (FCC ID: SWX-UAPXG)

Ant.	Chain	Brand	Model Name	Antenna Type	Connector	TX/RX Gain (dBi)
13	1	-	-	Internal Antenna	N/A	1

Note: The EUT has 14 antennas.

For Radio 1: 2.4GHz WLAN function (Module FCC ID: SWX-M442G)

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 Radio 2: 5GHz WLAN Band 1~ Band 2 function (module FCC ID: SWX-M445GL) / Radio 3: 5GHz WLAN Band 3~ Band 4 function (module FCC ID: SWX-M445GH)

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 Radio 4: 2.4GHz WLAN function, 5GHz WLAN Band 1~ Band 4 function (FCC ID: SWX-M11DB):

IEEE 802.11a/b/g/n mode (1TX/1RX): The module has one chain only.

Chain 1 can be used as transmitting/receiving antenna.

Chain 1 could transmit/receive simultaneously.

For Radio 5: Bluetooth function (FCC ID: SWX-UAPXG) / (1TX/1RX):

The module has one chain only.

Chain 1 can be used as transmitting/receiving antenna.

Chain 1 could transmit/receive simultaneously.



1.4. Table for Carrier Frequencies

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	0	2402 MHz	20	2442 MHz
	1	2404 MHz	:	:
	2	2406 MHz	37	2476 MHz
	:	:	38	2478 MHz
	18	2438 MHz	39	2480 MHz
	19	2440 MHz	-	-

1.5. Testing Location

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.6. Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR661623-08AB

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. One of the original modules of the device supports RX only before, but it supports TX and RX now (Radio 4, FCC ID: SXW-M11DB). 2. Changing the Equipment Name to "UniFi XG" from "UniFi Access Point". 3. Changing the antenna type name to "Internal" from "PIFA".	It does not need to test in this test report.

Reviewed by: Sam Chen

Report Producer: Cindy Peng

————THE END————