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Release Control Record						
Issue No. Description Date						
SA170609C18	Original release.		Jul. 28, 2017			
			Date Issued Jul. 28, 2017			

Certificate of Conformity 1

Product:	: Wireless 802.11 a/ac+b/g/n Indoor Access Point			
Brand:	Extreme Networks			
Test Model:	AP3915i			
Series Model:	AP7632i			
Sample Status:	Engineering sample			
Applicant:	Extreme Networks, Inc.			
Test Date:	Jun. 27 ~ Jul. 17, 2017			
Standards:	FCC Part 2 (Section 2.1091)			
	KDB 447498 D01 General RF Exposure Guidance v06			
	IEEE C95.1			

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Date: Jul. 28, 2017

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2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			Average Time (minutes)			
	Limits For General Population / Uncontrolled Exposure						
300-1500			F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	CDD Mode					
	2412-2462	25.47	7.21	20	0.369	1
	5180-5240	26.44	8.31	20	0.594	1
WLAN	5745-5825	25.64	8.31	20	0.494	1
WLAIN	Beamforming Mode					
	2412-2462	22.17	7.21	20	0.172	1
	5180-5240	23.43	8.31	20	0.297	1
	5745-5825	22.56	8.31	20	0.243	1
BT LE	2402-2480	4.00	4.10	20	0.001	1
Zigbee	2405-2480	3.53	4.10	20	0.001	1

3 Calculation Result of Maximum Conducted Power

Note:

2.4GHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 7.21dBi 5GHz: Directional gain = 5.3dBi + 10log(2) = 8.31dBi$

Fragueney Band	Max Power (dBm)			Total Power	Power Limit
Frequency Band	WLAN	BT LE	Zigbee	(dBm)	(dBm)
2.4GHz	25.47	4.00	-	25.50	30
2.4GHz	25.47	-	3.53	25.50	30

Conclusion:

2.4GHz & 5GHz & BT LE or 2.4GHz & 5GHz & Zigbee technology can transmit at same time.

BT LE and Zigbee cannot transmit simultaneously.

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WALN 2.4GHz + WALN 5GHz + BT LE = 0.369 + 0.594 + 0.001 = 0.964

2. WALN 2.4GHz + WALN 5GHz + Zigbee = 0.369 + 0.594 + 0.001 = 0.964

Therefore the maximum calculations of above situations are less than the "1" limit.

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