



TESTING LABORATORY  
CERTIFICATE #4820.01




FCC PART 15.407  
RSS-GEN, ISSUE 5, AMENDMENT 1, MARCH 2019  
RSS-247, ISSUE 2, FEBRUARY 2017  
TEST REPORT

For

**Proxim Wireless Corporation**

2114 Ringwood Ave, San Jose, CA 95131, USA

**FCC ID: HZB-NGPAP**  
**IC: 1856A-NGPAP**

<b>Report Type:</b> Original Report	<b>Product Name:</b> NGP LC 2.4 & 5 GHz radios
<b>Report Number:</b> RDG210319002-00B	
<b>Report Date:</b> 2021-03-25	
<b>Reviewed By:</b>	Ivan Cao Assistant Manager 
<b>Test Laboratory:</b>	Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1 <sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 <a href="http://www.baclcorp.com.cn">www.baclcorp.com.cn</a>

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	NGP LC 2.4 & 5 GHz radios
<b>Test Model:</b>	FCC: AP-9200R-US IC: AP-9200R-WD
<b>Multiple Model:</b>	AB-CCCCD-XXX-YYY-ZZ
<b>Model Difference:</b>	Refer to the DOS letter for details
<b>FCC Operation Frequency:</b>	5150-5250 MHz, 5250-5350 MHz, 5470-5725MHz, 5725-5850 MHz
<b>IC Operation Frequency:</b>	5250-5350 MHz, 5470-5600MHz & 5650-5725MHz, 5725-5850 MHz
<b>Maximum Average Output Power (Conducted):</b>	5150-5250 MHz: 28.28 dBm 5250-5350 MHz: 12.79 dBm 5470-5725 MHz: 14.27 dBm 5725-5850 MHz: 22.96 dBm
<b>Modulation Type:</b>	OFDM
<b>Rated Input Voltage:</b>	DC 56.0V from PoE
<b>Serial Number:</b>	RDG200805002-RF-S2
<b>EUT Received Date:</b>	2020.08.07
<b>EUT Received Status:</b>	Good

*Note: the devices intend for outdoor use, 5150-5250MHz and 5600-5650 MHz bands was disabled by software for Canada Market.*

### Optional Antenna Kit Accessory Information For 5G Band▲:

Manufacturer	Model	Antenna Type	input impedance (Ohm)	Antenna Gain /Used Frequency Range
ARC Wireless	ARC-OA5813SD1	Dual Pol Omni Antenna	50	13 dBi/ 5.15-5.85GHz
ARC Wireless	ARC-VS5821SD1	Dual Polarization Variable Beamwidth Sector Antenna	50	21 dBi/ 5.15-5.85GHz
Proxim	PA5-0530-DP	High Gain Dual Polarized/Dual Slant Antenna	50	29.5 dBi/ 5.15-5.85GHz
UBIQUITI Networks	RD-5G34	2x2 PtP Bridge Dish Antenna	50	34 dBi/ 5.15-5.25G&5.725-5.85GHz

*Note: RD-5G34 was only used for Frequency 5.15-5.25G&5.725-5.85GHz.*

*PA5-0530-DP should be installed with the accessory 10dB Attenuators when Frequency setting for 5250-5350MHz or 5470-5725 MHz bands.*

### Objective

This type approval report is prepared on behalf of **Proxim Wireless Corporation** in accordance with Part 2-Subpart J, Part 15-Subparts A, and E of the Federal Communications Commission's rules and RSS-247, Issue 2, February 2017, RSS-Gen Issue 5, Amendment 1, March 2019 of the Innovation, Science and Economic Development Canada.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules and RSS-247, Issue 2, February 2017, RSS-Gen Issue 5, Amendment 1, March 2019 of the Innovation, Science and Economic Development Canada.

The device is the upgraded version based on the certified device, FCC ID: HZB-NGPLC, IC: 1856A-NGPLC, the difference between the new and the old version is:

Add 2.4GHz WLAN hardware and enable 2.4GHz WLAN software.

The changes not affect the 5G WLAN radio part, the 5G WLAN part please refer to the original report: RDG200805002-00B for Radio test and RDG200805002-00D for DFS test.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB 789033 D02 General U-NII Test Procedures New Rules v02r01, and RSS-247, Issue 2, February 2017, RSS-Gen Issue 5, Amendment 1, March 2019 of the Innovation, Science and Economic Development Canada.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

## Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

*Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1<sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

## **Declarations**

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§15.203, RSS-Gen Clause 6.8	Antenna Requirement	Compliance
FCC§15.407(b)(6)& §15.207(a), RSS-Gen Clause 8.8	Conducted Emissions	Compliance
FCC§15.205& §15.209 &§15.407(b), RSS-247 Clause 6.2	Undesirable Emission& Restricted Bands	Compliance
FCC§15.407(a) (e), RSS-247 Clause 6.2 RSS-Gen Clause 6.7	Emission Bandwidth	Compliance
FCC§15.407(a) RSS-247 Clause 6.2	Conducted Transmitter Output Power	Compliance
FCC§15.407 (a), RSS-247 Clause 6.2	Power Spectral Density	Compliance
RSS-247 Clause 6.4	Additional requirements	Compliance

*Note:*

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*The changes not affect the 5G WLAN radio part, the 5G WLAN part please refer to the original report: RDG200805002-00B for Radio test and RDG200805002-00D for DFS test.*

**\*\*\*\*\* END OF REPORT \*\*\*\*\***