Proxim StratumTM X5 US Point To Point Radio User Guide

Contents

Proxim StratumTM X5 US Point To Point Radio

Specifications:

- Product Name: StratumTM X5
- Models: SX5-1040A, SX5-1042A, SX5-1040A Quickbridge, SX5-1042A Quickbridge
- Documentation Version: 1.1
- Part Number: 765-00424
- Copyright: Proxim

Product Information

The StratumTM X5 is a high-performance networking device designed for reliable and efficient data transmission. It includes features such as advanced security protocols and regulatory compliance to ensure safe usage.

Product Usage Instructions

Safety Information:
When using the StratumTM X5, always follow basic safety precautions to reduce the risk of fire, electric shock, and injury to persons. Refer to the Safety and Regulatory Guide for detailed safety instructions.

Regulatory Compliance:
The product complies with safety regulations in the USA, Canada, European Union, UK, and Industry Canada. Ensure compliance with local regulations before installation.

Installation Guidelines:
Follow the installation guidelines provided in the documentation to ensure proper setup and performance. For installations within TDWR range, refer to specific instructions for compliance.

FAQ:

- **Q: Can I freely copy and modify the software included with StratumTM products?**
  A: Yes, the software included is licensed under the GNU General Public License or GNU Lesser General Public License, allowing users to freely copy, modify, and redistribute the software.
- **Q: How can I obtain a copy of the software or seek further information?**
  A: For a copy of the software or additional information, please contact our customer support team for assistance.

StratumTM X5
Safety and Regulatory Guide

Products Covered
Stratum™ X5

- SX5-1040A
- SX5-1042A
- SX5-1040A Quickbridge
- SX5-1042A Quickbridge

Copyright

Trademarks

Disclaimer

Proxim reserves the right to revise this publication and to make changes in content from time-to-time without obligation on the part of Proxim to provide notification of such revision or change. Proxim may make improvements or changes in the product(s) described in this guide at any time. When using these devices, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons.

GPL License Note

StratumTM products include, in part, some free software that is developed by Free Software Foundation. A user is granted license to this software under the terms of either the GNU General Public License or GNU Lesser General Public License (See **http://www.gnu.org/licenses/licenses.html**). This license allows the user to freely copy, modify and redistribute this software and no other statement or documentation from us. To get a copy of this software, or for any other information, please contact our customer support team).

OpenSSL License Note

StratumTM products contains software developed by the OpenSSL Project for use in the OpenSSL Toolkit (**http://www.openssl.org/**) and that is subject to the following copyright and conditions:
Copyright (c) 1998-2016 The OpenSSL Project. All rights reserved.
The names “OpenSSL Toolkit” and “OpenSSL Project” must not be used to refer to, endorse, or promote the products or for any other purpose related to the products without prior written permission. For written permission, please contact **openssl-core@openssl.org**.

This software is provided by the OpenSSL Project “as is” and any expressed or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the OpenSSL Project or its contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

StratumTM X5 – Safety and Regulatory Guide

- Documentation Version:1.1
- P/N 765-00424, January 2024.

Preface

About this Guide

This document contains the safety and regulatory compliance information for the following StratumTM products:

- StratumTM X5 Series
- SX5-1040A
- SX5-1042A

Related Documents

- In addition to this guide, please refer to the following documents for StratumTM X5 products that are available at Proxim’s support site **http://support.proxim.com**.
- **Quick Installation Guide (QIG):** A quick reference guide that provides essential information for installing and

configuring the device.

- Device Management Guide – A guide that gives an overview of the device user interface and explains the step-by-step procedure to configure, manage and monitor the device by using Graphical User Interface.
- **Software Configuration Guide:** A guide that provides software configuration information for Proxim devices.
- **Hardware Installation Guide**: A guide that provides a hardware overview and details about the installation procedures and hardware specifications.
- CLI Guide – A guide that gives instructions on how to configure, manage and monitor the device using Command Line Interface.

Proxim recommends you to visit its support site **http://support.proxim.com** for regulatory information and latest product updates.

StratumTM Series – Regulatory Information

This chapter contains information on the following:

- Safety Information (USA, Canada and European Union and UK)
- Federal Communications Commission (FCC) Compliance
- Industry Canada Compliance
- Certification Summary

Safety Information (USA, Canada and European Union and UK)

Listed below are the product(s) and their corresponding safety standards that they comply with:

Product(s)	Standards
SX5-1040A SX5-1042A	• IEC 62368-1:2018 • UL 62368-1:2019 • CSA C22.2 No. 62368-1:19 • EN IEC 62368-1:2020+A11:2020 BS EN IEC 62368-1:2020+A11:2020

All products are intended to be installed, used, and maintained by experienced telecommunications personnel only.
When using these products, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons, including the following:

- Devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation.
- Installation of these products in the end use must conform to local regulations and codes.
- Devices are to be used with and powered only by the Power Injector provided.
- A 16-amp circuit breaker is required at the power source.
- The devices are intended to be grounded. Use a 12 AWG earthing conductor at a minimum.

- Do not connect or disconnect the power cable from the device when the power injector is plugged into an AC power outlet.
- Devices should be serviced by trained personnel only. Do not disassemble the device. By opening or removing any covers, you may expose yourself to hazardous energy parts. Incorrect reassembly of these devices can cause malfunction and/or electric shock when later used. There are no user serviceable parts; all repairs and services must be handled by a qualified service center.
- Do not insert any objects of any shape or size inside these devices while powered on. Objects may contact hazardous energy parts that could result in a risk of fire or personal injury.
- Do not remove or alter the marking label provided on these devices.
- To avoid the risk of electric shock from lightning, do not use these devices during an electrical storm.
- RJ-45 maximum available current is 1.33A.

WARNING: These devices are intended for installation in accordance with Articles 110-18, 110-26, and 110-27, 725, 800, and 810 of the United States National Electric Code ANSINFPA 70, and per the applicable Articles in the Canadian National Electric Code.

Federal Communications Commission (FCC) Compliance
The StratumTM devices have been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING:

- To comply with FCC part 15 rules in the United States, the system must be professionally installed to ensure compliance with the Part 15 certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States. The use of the system in any other combination (such as co-located antennas transmitting the same information) is expressly forbidden.

The device operation is subject to the following two conditions:

1. The device may not cause harmful interference
2. The device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operate in conjunction with any other antenna or transmitter. The FCC radio-frequency exposure guidelines for an uncontrolled environment can be satisfied.

Modifications
The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by the manufacturer may void the user's authority to operate the device. The correction of interference caused by unauthorized modification, substitution or attachment will be the responsibility of the user. The manufacturer and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from failing to comply with these guidelines.

WARNING:

- Modification of this device to receive cellular Radio Telephone service signals is prohibited under FCC Rules

and Federal Law.

- Modifications not expressly approved by the manufacturer could void the user authority to operate the equipment under FCC Rules.

FCC Radiation Exposure Statement
The StratumTM devices comply with FCC radiation exposure limits set forth for an uncontrolled environment. Tabulated below are the products and the FCC radiation exposure limits followed by the devices:

Product(s)	**Standards**
SX5-1040A SX5-1042A	• Product models using external antennas require professional installation. The antennas used for professional installation must be fixed-mounted on outdoor permanent structures with a minimum separation distance from the antenna to the users for antennas according to the below table : • Antennas must not be co-located and must not operate in conjunction with any other antenna or transmitter.

Antenna Model	Frequency (MHz)	Minimum Separation Distance (CM)
TM55D-HVOMNI-12	5150 to5250	33
	5250 to 5350	20
	5470 to 5725	20
	5725 to 5850	37
TM55D-HVSCTR-21	5150 to 5250	47
	5250 to 5350	20
	5470 to 5725	20
	5725 to 5850	59
MT-466010/NVH	5150 to 5250	83
	5250 to 5350	45
	5470 to 5725	45
	5725 to 5850	131
TM55L-DPDISH	5150 to 5250	66
	5725 to 5850	292
MA-WA57-QP4MIMO19	5150 to 5250	52
	5250 to 5350	20
	5470 to 5725	20
	5725 to 5850	59
PCB Antenna	2402 to 2480	20

Installation within TDWR Range

Before mounting and installing the device, please check the distance between the device location and the near by Terminal Doppler Weather Radar (TDWR). You can find the locations of the airport weather radars from the Wireless Internet Service Providers Association (WISPA) database at **http://spectrumbridge.com/udrs/home.aspx**. If the distance from the device to any TDWR is less than 35 kms, then the radio is not allowed to operate in channels closer than 30 MHz relative to the TDWR frequency (above and below). To protect these TDWR, the channels up to 30 MHz must be blacklisted so they cannot be WISPA database, so that any interference caused by the operation of the radio can be addressed in compliance with the Part 15 requirements.

For example: Consider the TDWR location at Phoenix, AZ operating at 5610 MHz (N 33 25 14; W 112 09 46). If the device is installed within 35 kms radial distance from this location then avoid operating in (5580 – 5640) MHz band. Also, blacklist all channels overlapping the 5580 – 5600 MHz band (5600 – 5650) is already removed from operation list of our device).

Industry Canada Compliance

The Stratum devices comply with Canadian ICES-003 and license-exempt RSS standard(s). The device operation is subject to the following conditions:

- This device may not cause interference
- This device must accept any interference, including interference that may cause undesired operation of the device

WARNING:

- High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

NOTES:

- This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.
- Under Industry Canada regulations, the radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
- The devices are designed to operate with disabled operation between 5600-5650 MHz within the 5470-5725 MHz band.
- The device automatically discontinues transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes which is required by the technology.
- Any changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate these devices.
- This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain. Antenna types not included in this list, and having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Frequency Band	Antenna Type	Maximum Gain (dBi)
(5.250-5.250)GHz / ((5.470-5.725)GHz (5.725-5.850) GHz	Panel	28
	Omni Directional	12
	Sector	21
	Panel (Integrated)	19
(5.725 – 5.850) GHz	Parabolic Dish	35
(2.402 – 2.480)GHz	PCB	2

This device complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. The device should be installed and operated with a minimum distance between the antenna and the user according to the below table. Under such configuration, the IC RSS-102 radiation exposure limits set forth for an population/uncontrolled environment can be satisfied.

Antenna Model	Frequency (MHz)	Minimum Separation Distance (CM)
TM55D-HVOMNI-12	5225 to 5350	20
	5470 to 5725	20
	5725 to 5850	33
TM55D-HVSCTR-21	5250 to 5350	20
	5470 to 5725	20
	5735 to 5850	51
MT-466010/NVH	5250 to 5350	45
	5470 to 5725	45
	5725 to 5850	114
TM55L-DPDISH	5725 to 5850	255
MA-WA57-QP4MIMO19	5250 to 5350	20
	5470 to 5725	20
	5725 to 5850	51
PCB Antenna	2402 to 2480	20

European (ETSI) and UK Compliance

The Stratum devices comply with the Low Voltage Directive (LVD) (2014/35/EU) and Radio Equipment Directive (2014/53/EU). Compliance with these directives implies conformity to harmonized European standards (European Norms).

Countries of Operation and Conditions of Use

The devices may be used in the following EU and EFTA countries: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden and the United Kingdom.

The professional installer must use the configuration utility provided with the device to ensure that EIRP and the channels of operation are in conformance with the spectrum usage rules for EU and EFTA countries as described below.

2 5GHz Operation
The installer must use the configuration utility provided with the device to ensure the channels of operation are in conformance with the spectrum usage rules.

The device employs a radar detection feature required for European Community and EFTA country operation in the 5 GHz band. This feature is automatically enabled when the country of operation is correctly configured for any European Community or EFTA country. The presence of nearby radar operation may result in temporary interruption of operation of this device. The radar detection feature will automatically restart operation on a channel free of radar.

Transmit Power Control (TPC) for 5 GHz operation
It is recommended not to disable ATPC on the device. However, if you wish to manually set TPC level, use professional installer services to ensure TPC level is set properly and complies with European regulatory requirements.

NOTE:
The TPC procedure should be repeated when relocating the wireless device within the current wireless network or to a wireless network in a new location.

Certification Summary

USA (See USA – Certification)

Models	**Frequency Band**	**Certification/Reference Number**
SX5-1040A -US SX5-1042A -US	(5.150 – 5.250)GHz (5.250 – 5.350)GHz (5.500 – 5.725)GHz (5.725 – 5.850)GHz (2.402 – 2.480)GHz for BLE	FCC ID: HZB-GIGA5

Canada (See CANADA – Certification)

Models	**Frequency Band**	**Certification/Reference Number**
SX5-1040A -WD SX5-1042A -WD	(5.150 – 5.250)GHz (5.250 – 5.350)GHz (5.500 – 5.725)GHz (5.725 – 5.850)GHz (2.402 – 2.480)GHz for BLE	IC:1856A-GIGA5

ETSI (See ETSI – Certification)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	CE

UK (See UK – Certification)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	UKCA

CB (See CB – Test Certificate)

Models	Certification/Reference Number
SX5-1040A SX5-1042A	JPTUV-151216

Information for Professional Installer

This chapter contains information on the following:

- Information for Professional Installers
- Adjusting Tx Output Power
- Antenna Gain Configuration

Information for Professional Installers

All products must be professionally installed, and the transmit power of the system must be adjusted by the professional installers to ensure that the system EIRP is in compliance with the limit specified by the regulatory authority of the country of application.

Adjusting Tx Output Power

NOTE: When the system is set to transmit at the maximum power, professional installers must ensure that the maximum EIRP limit is not exceeded. To achieve this, they may have to add attenuation between the device and the antenna when a high gain antenna is used.
Use the following formula in combination with the table of EIRP limits in US and EU countries to calculate system transmit power (based on EIRP limits) of these countries:

- Tx Power (dBm) = EIRP Limit (dBm) + FL (dB) – G (dB) where,
- Tx Power = Output power measured at the antenna input EIRP Limit = EIRP limits specified below
- FL = Feeder loss including loss of connectors
- G = Antenna Gain

Transmit output power can be reduced by using Automatic Transmit Power Control (ATPC), or manually setting the Transmit Power Control (TPC). For information to automatically or manually set TPC, refer to Software Management Guide available at **http://support.proxim.com**.

Regulatory Domain	**Frequency (MHz)**	**Max EIRP (dBm)**	
		PTP Mode (QB)	**PTMP Mode (MP)**
US SKU			
United States 5GHz	5150 ~ 5250 (Non-DFS)	30	30
	5250 ~ 5350(DFS)		
	5500 ~ 5725(DFS)		
	5725 ~ 5850 (Non-DFS)		
United States 5.8GHz	5725 ~ 5850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
United States1(5.3, 5.4 GHz)	5250 ~ 5350(DFS)	30	30
	5500 ~ 5725(DFS)		
United States2(5.3, 5.8 GHz)	5250 ~ 5350(DFS)	30	30
	5725 ~ 5850 (Non-DFS)		
United States3 (5.2, 5.8 GHz)	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5725 ~ 5850 (Non-DFS)		
WD SKU			
World 5 GHz	5150 ~ 5925 (Non-DFS)	100	100
United States 5GHz	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5250 ~ 5350(DFS)		
	5500 ~ 5725(DFS)		
	5725 ~ 5850 (Non-DFS)		
United States 5.8GHz	5725 ~ 5850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5250 ~ 5350(DFS)		

United States1 (5.3, 5.4 GHz)	5500 ~ 5725(DFS)	30	30
United States2 (5.3, 5.8GHz)	5250 ~ 5350(DFS)	53	36(Base Station), 53(Subscriber Unit)
	5500 ~ 5725(DFS)		
United States3 (5.2, 5.8 GHz)	5150 ~ 5250 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
	5725 ~ 5850 (Non-DFS)		
Canada 5 GHz	5150 ~ 5250 (Non-DFS)	23 (Indoor)	23 (Indoor)
	5250 ~ 5350(DFS)	30	30
	5470 ~ 5600(DFS)		
	5650 ~ 5725(DFS)		
	5725 – 5.850 (Non-DFS)	53	36(Base Station), 53(Subscriber Unit)
Europe 5.4 GHz	5470 ~ 5600 (DFS)	30	30
	5650 ~ 5725 (DFS)		
Europe 5.8 GHz	5725 ~ 5875 (DFS)	36	36
UK 5.8 GHz	5725~5795	36	36
	5815~5850		

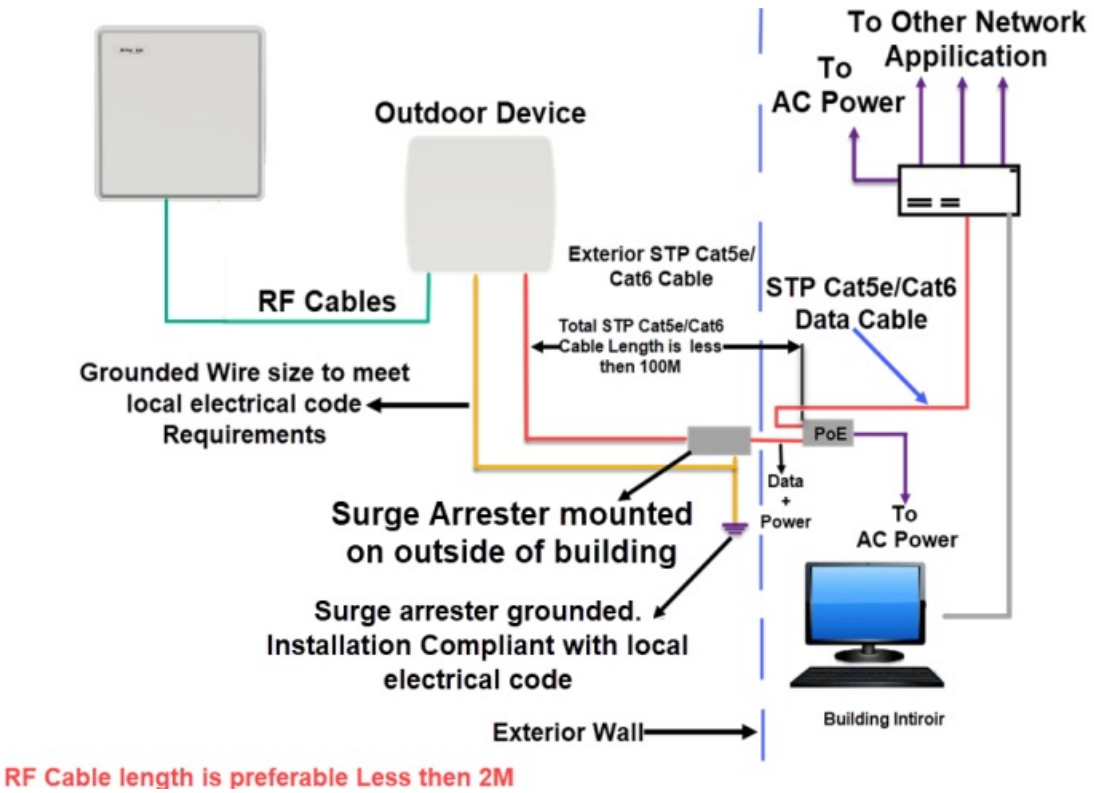
IMPORTANT! You must add external attenuation pad if the calculated EIRP is over the limit. If you are at the TPC limit, reduce the power and continue with the attenuation.

Antenna Gain Configuration

When using external antenna, the professional installer should ensure to configure proper antenna gain so that the radio does not exceed the EIRP allowed per regulatory domain.

Information for Professional Installer

External Antenna



Calculate the antenna gain as follows:
Antenna Gain to be configured = Antenna Gain of the antenna used – Cable Loss

Example: Consider an example where the device is operating in United States 5.3 GHz with the EIRP 30 dBm. The antenna gain of the antenna used is 23 dBi and the cable loss is 1dB.
Given this case, Configurable Antenna Gain = [23 dBi – 1 dB] = 22 dBi
Maximum Radio Power = EIRP – Configured Antenna Gain

- = 30 dBm – 22 dBi
- = 8 dBm

With this configuration, the ATPC feature will limit the radio power to a maximum of 8 dBm to avoid exceeding EIRP limit of 30 dBm.

USA – Certification

Given below are the USA certification details for the following products:

- SX5-1040A -US
- SX5-1042A -US

TCB

GRANT OF EQUIPMENT AUTHORIZATION

Certification Issued Under the Authority of the Federal Communications Commission By:

TUV Rheinland of North America, Inc. 1279 Quarry Lane Suite A Pleasanton, CA 94566 Proxim Wireless Corporation 2114 Ringwood Avenue San Jose, CA 95131 Attention: Ken Lim, Accounting Manager TCB

- Date of Grant: 09/22/2023
- Application Dated: 09/20/2023
- Proxim Wireless Corporation 2114
- Ringwood Avenue
- San Jose, CA 95131
- Attention: Ken Lim, Accounting Manager

NOT TRANSFERABLE
EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, commission Rules and the Regulations listed below.

- **FCC IDENTIFIER:** HZB-GIGA5
- **Name of Grantee:** Proxim Wireless Corporation
- **Equipment Class:** Digital Transmission System
- **Notes:** Startum X5 Gigabit 5 GHz Radio

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
CC	15C	2402.0 - 2480.0	0.0018		

Output power listed is peak conducted.

CC: This device is certified pursuant to two different Part 15 rules sections.

TCB GRANT OF EQUIPMENT

AUTHORIZATION Certification Issued Under the Authority of the Federal Communications Commission By: TCB

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

TUV Rheinland of North America, Inc.
1279 Quarry Lane Suite A
Pleasanton, CA 94566

Date of Grant: 09/22/2023
Application Dated: 09/20/2023

Proxim Wireless Corporation
2114 Ringwood Avenue
San Jose, CA 95131

Attention: Ken Lim , Accounting Manager

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: HZB-GIGA5
Name of Grantee: Proxim Wireless Corporation
Equipment Class: Digital Transmission System
Notes: Startum X5 Gigabit 5 GHz Radio

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
CC	15C	2402.0 - 2480.0	0.0018		

Output power listed is peak conducted.

CC: This device is certified pursuant to two different Part 15 rules sections.

CANADA – Certification

Given below are the USA certification details for the following products:

- SX5-1040A -WD
- SX5-1042A -WD

TECHNICAL ACCEPTANCE CERTIFICATE

TECHNICAL ACCEPTANCE CERTIFICATE

TÜVRheinland®
Precisely Right.

CERTIFICATE NO.:	**1856A-GIGA5**	**MARKETING NAME (PMN):**	**Stratum X5**
CERTIFICATE TYPE:	**Single New Model**	**HARDWARE VERSION (HVIN):**	**Gigabit 5 quad**
TYPE OF EQUIPMENT :	**Wireless Local Area Network Device**	**FIRMWARE VERSION (FVIN):**	**N/A**
ISSUED TO:	**Proxim Wireless Corporation** 2114 Ringwood Ave, San Jose, CA 95131, United States Of America		
TESTED BY:	**TÜV RHEINLAND (INDIA) PVT. LTD.**	**Company Number:**	**27711**
	27/B, 2nd Cross, Electronics, City Phase 1, Bangalore 560 100, India		
CONTACT:	B.R. Guruprasad	**Email:**	guruprasad.br@ind.tuv.com
	Tel.: N/A	**Fax:**	N/A

Frequency Range Low MHz	Frequency Range High MHz	RF Power Conducted Watt	Emission Designator (**TRC-43** e.g.- 150KP1D)	Specification Standard RSS No.& Issue No.
2402	2480	0.0018	1M03G1D	RSS-247, Issue 3
5745	5825	0.1901	19M2D1D	RSS-247, Issue 3
5755	5795	0.1853	38M2D1D	RSS-247, Issue 3
5775	5775	0.1409	78M5D1D	RSS-247, Issue 3
--	--	--	--	--

ANTENNA TYPE & GAIN: 5 GHz Band: Pannel Antenna with 28 dBi (Max.), Omni Directional Antenna with 12 dBi (Max.), Sector Antenna with 21 dBi (Max.), Parabolic Dish Antenna with 35 dBi (Max.), Integrated Panel Antenna with 19 dBi (Max.); 2.4 GHz Band: PCB Antenna with 2 dBi (Max.)

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale, or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

- **Certified**: Sam Lin
- **Date:** September 22, 2023

Signature: 

TÜV Rheinland of North America Inc. 1279 Quarry Ln. Suite A. Pleasanton. CA 94566 USA

- **Tel:** 925-249-9123
- **Fax:** 925-249-9124

ETSI – Certification

Given below are the products with the ETSI Certification:

- SX5-1040A
- SX5-1042A

UK – Certification

Given below are the products with the authorization to use UL Mark:

- SX5-1040A
- SX5-1042A

CB – Test Certificate

Given below is the CB Test certification for the following products:

- SX5-1040A
- SX5-1042A

IEC IECEE

Ref. Certif. No.

JPTUV-151216

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Stratum X5 (Wireless Ethernet Devices)
Name and address of the applicant	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA
Name and address of the manufacturer	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA
Name and address of the factory	Proxim Wireless Corporation 2114 Ringwood Avenue, San Jose, CA 95131, USA
Ratings and principal characteristics	Input: 56Vdc 1.1A - via Ethernet Port OR 12Vdc 3.0A - via Access Port Output: 56Vdc 30W Max. (Optional) (Only when 56V dc input provided); Class III
Trademark (if any)	Stratum™
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	SX5-UUVWY-ZZ (UU=10 or 20, V=2 or 4, W=0-9, Y=A or B or C, ZZ can be 2 alphabets)
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report.
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate	IN23ZC03 001

This CB Test Certificate is issued by the National Certification Body

TÜVRheinland®

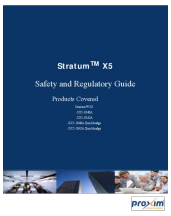
TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web : www.tuv.com

Date: 2023-09-01

Signature: Paddy Qiu

10/061 CB 06/20/0/rk

Documents / Resources

	**Proxim StratumTM X5 US Point To Point Radio** [pdf] User Guide StratumTM X5 US Point To Point Radio, StratumTM X5, US Point To Point Radio, To Point Radio, Radio

References

- 192.168.l.l - 192.168.1.1 Admin Login
- support.proxim.com
- Licenses - GNU Project - Free Software Foundation
- openssl.org/
- User Manual