RDL-3000 Family

Broadband Wireless Systems

RDL-3000-RMG

Radio Modules

Product Manual

Copyright Information

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Document Control:

70-00184-04-01-RDL-3000-RMG_Module_Product_Manual-20130730a.doc

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1 Product Overview

The RDL-3000-RMG radio module is comprised of a proprietary Media Access Control (MAC) protocol engine and Time Division Duplexing (TDD)/ Orthogonal Frequency Division Duplexing (OFDM) digital radio.

The module is not designed for stand-alone operation. The module is sold as one component of a packaged system which includes a suitable housing for the module connectors for required external components including a power supply and antenna system. This is afterwards referred to as the 'final product'. The final product may be designed and manufactured by Redline or a licensed third party.

Frequency settings within the specified frequency ranges are software keyed to be compliant with specific regulatory agency requirements in the region of deployment.

USA & Canada: 4900 to 5975 MHz

Important: Read this entire document prior to installing or operating these modules.

2 Conditions of Use

2.1 General Conditions

The RDL-3000-RMG module is not provided for sale to the general public. The module contains a proprietary radio interface and can not be directly connected to any standard telecommunications or computer devices. This manual is provided as supplement to technical and operational documentation and training provided by Redline and its agents.

Any operation or use of this module in any manner not expressly specified within this manual or approved in writing by Redline (or its agents) is expressly forbidden and voids the users right to operate the module. This includes, but is not limited to, any modification of the module hardware or software, installation of the module in a non approved enclosure, and use with non approved antennas.

2.2 Country of Use

Refer to the regulatory notices in this document before installing or operating the module.

Operation of the final product requires a software 'key' that is available exclusively from Redline or its authorized agents. The software key is unique to each module and must be installed and activated before the radio will operate. The key contains sufficient security features that the professional installer and operator can not decode, modify, substitute, or otherwise circumvent the operational restrictions imposed by the 'key'.

The software 'key' limits the transmit power, operating frequency range, and channel bandwidth per the regulator domain governing the location where the radio will be deployed. The operator does not have the option to select the country or regulatory region of operation.

The software 'key' limits the mode of operation as a master or client. The client mode is 'passive listener' and while in this mode the module can not initiate any transmission without first receiving and decoding a valid authorization message from the master. A module with a key for client operation can not be changed by the installer to enable master mode operation. A module with a key for master operation can operate in master or client (passive) mode.

Operation in the United States

The RDL-3000-RMG module is certified with limited modular approval for use as an 'intentional radiator' in the United States as device FCC ID: QC8-RDL3000RMG.

Operation in Canada

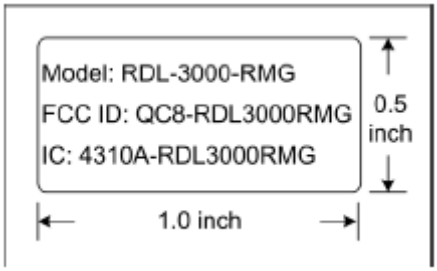
The RDL-3000-RMG module is certified with limited modular approval for use as an 'intentional radiator' in the Canada as IC: 4310A-RDL3000RMG.

2.3 Product Labeling

2.3.1 Module Label

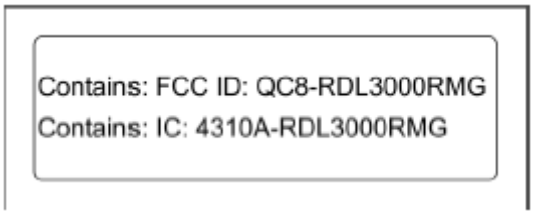
The modular transmitter will display a label referring to the FCC ID registration number and the Industry Canada IC registration number. An information label is applied directly to the modular transmitter (example shown below).

Do not to remove any labels from the module.



2.3.2 External Label

Information labels are applied to the final product. The final product features a label on the outside surface listing the registration number for the enclosed module. Do not to remove any labels from the module or the final product.



3 Module Installation and Service

3.1 Installation into a Final Product

The module must be installed only by trained professional technicians authorized by Redline or its agents. The module must be installed only into an approved enclosure (see Conditions of Use) and only at an approved manufacturing facility or service depot.

Redline shall retain complete control over the final installation of the module and will ensure compliance of the end product to all applicable FCC/IC regulations. The module must be installed only into an approved enclosure (see Conditions of Use) and only at an approved manufacturing facility or service depot.

Redline licensing of the modular transmitter includes monitoring to ensure compliance in the operation and use of the module as expressly specified within this manual. This includes restrictions against modification of the module hardware, approval of the final enclosure, operational restrictions for installers and end-users, and approval of antennas provided for use with the product.

Operation of the final product requires the 'key' be controlled exclusively by the manufacturer. The 'key' must be unique to each module and must be installed and activated before the radio will operate. The key must contain sufficient security features

to the professional installer and operator can not decode, modify, substitute, or otherwise circumvent the operational restrictions imposed by the 'key'.

The software 'key' must limit the transmit power, operating frequency range, and channel bandwidth per the regulator domain governing the location where the radio will be deployed. The operator does not have the option to select the country or regulatory region of operation.

The software 'key' must limit the mode of operation as a master or client. The client mode is 'passive listener' and while in this mode the module can not initiate any transmission without first receiving and decoding a valid authorization message from the master. A module with a key for client operation can not be changed by the installer to enable master mode operation.

Redline will review all final products for compliance to regulatory restrictions.

The manufacturer must meet all labeling described in section 2.3.

3.2 Module Servicing

The module is not intended to be field serviceable, and contains no field serviceable or field replaceable parts. The module must be serviced only at an approved manufacturing facility or service depot.

 **Warning:** The module is susceptible to damage from electrostatic charge. Electrostatic Discharge (ESD) must be avoided to prevent damaging or destroying the module. The module must always be store in an anti-static container/bag prior to installation and following removal from the product for servicing. Observe ESD precautions when handling the module.

3.3 Professional Installation

Devices containing the module require professional installation. It is the responsibility of the installer to understand the product operation by attending training as required, reading and understanding the product documentation, and ensuring that all building, safety and regulatory codes are met and the installation is complete and secure.

3.4 Safety Precautions

Installation and service of the module must be performed by personnel having technical training and experience necessary to be aware of hazards during installation and/or service of RF equipment. The installation and/or service must be done using procedures designed to minimize any danger to technical personnel or any other person.

3.5 Radio Frequency Safety

The installer of this radio equipment must ensure the antenna is located or pointed such that it does not emit RF fields in excess of the general population limits as defined by:

- FCC CFR 47, Part 2.1091
  http://www.gpo.gov/fdsys/pkg/CFR-2009-title47-vol1/pdf/CFR-2009-title47-vol1-sec2-1091.pdf
- FCC OET Bulletin 65, Radio frequency radiation exposure evaluation for fixed devices
  http://transition.fcc.gov/Bureaus/Engineering_Technology/Documents/bulletins/oet65/oet65c.pdf
- Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website:
  http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/radio_guide-lignes_direct-eng.php

Refer to the regulatory statements included in this document.

4 Final Product Requirements

The following requirements apply to all final products incorporating an RDL-3000-RMG, module.

4.1 Frequency Bands

Operation of the final product requires a software 'key' that is available exclusively from Redline. This key restricts device operation to the FCC/IC 4940-4990 MHz, 5250-5350 MHz, 5470-5725 MHz, 5725-5850MHz or FCC 5150-5250MHz MHz band. The professional installer and operator can not modify or otherwise circumvent these operational restrictions.

4.1.1 Antenna Use and Transmit Power

The module supports operation with 2x2 MIMO antenna systems with two transmit chains and two receive chains. The module must be used only with certified antennas and using the channel size and output power level specified by the FCC/IC regulations.

4.1.2 Certified Antennas

This device has been designed to operate with the antennas listed in the following table. Any additional antennas will be used only after authorization is obtained through Class II permissive change.

Table 1: Approved Antennas

Manufacturer	Part #	Gain (dBi)	Frequency Range
Redline	A3FT3204LTPD	32	4900-5875 MHz
Redline	APD-DB-05-2ft-RAD-01	29	4900-5875 MHz
Redline	30-00328-00	19	4900-5875 MHz
L-Com	HG5158DP-10U	10	5100-5800 MHz

4.1.3 Power & EIRP (MIMO Operation)

4.9 GHz: FCC 47 CFR Part 90 Subpart Y

Table 2: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	19.20	19.22	22.22	27.00	4.78	10.00	32.22	53.00	20.78
	4965.0	19.80	19.64	22.73	27.00	4.27	10.00	32.73	53.00	20.27
	4987.5	20.13	20.02	23.09	27.00	3.91	10.00	33.09	53.00	19.91
QPSK	4942.5	19.41	19.26	22.35	27.00	4.65	10.00	32.35	53.00	20.65
	4965.0	19.79	19.36	22.59	27.00	4.41	10.00	32.59	53.00	20.41
	4987.5	20.02	19.95	23.00	27.00	4.00	10.00	33.00	53.00	20.00
16-QAM	4942.5	19.38	19.23	22.32	27.00	4.68	10.00	32.32	53.00	20.68
	4965.0	19.92	19.33	22.65	27.00	4.35	10.00	32.65	53.00	20.35
	4987.5	19.99	20.11	23.06	27.00	3.94	10.00	33.06	53.00	19.94
64-QAM	4942.5	19.35	19.03	22.20	27.00	4.80	10.00	32.20	53.00	20.80
	4965.0	20.03	19.53	22.80	27.00	4.20	10.00	32.80	53.00	20.20
	4987.5	20.04	20.22	23.14	27.00	3.86	10.00	33.14	53.00	19.86

Table 3: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	19.20	19.22	22.22	27.00	4.78	19.00	41.22	53.00	11.78
	4965.0	19.80	19.64	22.73	27.00	4.27	19.00	41.73	53.00	11.27
	4987.5	20.13	20.02	23.09	27.00	3.91	19.00	42.09	53.00	10.91
QPSK	4942.5	19.41	19.26	22.35	27.00	4.65	19.00	41.35	53.00	11.65
	4965.0	19.79	19.36	22.59	27.00	4.41	19.00	41.59	53.00	11.41
	4987.5	20.02	19.95	23.00	27.00	4.00	19.00	42.00	53.00	11.00
16-QAM	4942.5	19.38	19.23	22.32	27.00	4.68	19.00	41.32	53.00	11.68
	4965.0	19.92	19.33	22.65	27.00	4.35	19.00	41.65	53.00	11.35
	4987.5	19.99	20.11	23.06	27.00	3.94	19.00	42.06	53.00	10.94
64-QAM	4942.5	19.35	19.03	22.20	27.00	4.80	19.00	41.20	53.00	11.80
	4965.0	20.03	19.53	22.80	27.00	4.20	19.00	41.80	53.00	11.20
	4987.5	20.04	20.22	23.14	27.00	3.86	19.00	42.14	53.00	10.86

Table 4: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	17.73	18.14	20.95	21.00	0.05	32.00	52.95	53.00	0.05
	4965.0	17.27	17.82	20.56	21.00	0.44	32.00	52.56	53.00	0.44
	4987.5	17.48	17.88	20.69	21.00	0.31	32.00	52.69	53.00	0.31
QPSK	4942.5	17.59	17.75	20.68	21.00	0.32	32.00	52.68	53.00	0.32
	4965.0	17.37	17.79	20.60	21.00	0.40	32.00	52.60	53.00	0.40
	4987.5	17.52	17.87	20.71	21.00	0.29	32.00	52.71	53.00	0.29
16-QAM	4942.5	17.74	17.70	20.73	21.00	0.27	32.00	52.73	53.00	0.27
	4965.0	17.35	17.76	20.57	21.00	0.43	32.00	52.57	53.00	0.43
	4987.5	17.19	17.90	20.57	21.00	0.43	32.00	52.57	53.00	0.43
64-QAM	4942.5	17.82	17.70	20.77	21.00	0.23	32.00	52.77	53.00	0.23
	4965.0	17.22	17.85	20.56	21.00	0.44	32.00	52.56	53.00	0.44
	4987.5	17.17	17.98	20.60	21.00	0.40	32.00	52.60	53.00	0.40

Table 5: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	19.73	19.13	22.45	30.00	7.55	10.00	32.45	56.00	23.55
	4965.0	20.01	19.59	22.82	30.00	7.18	10.00	32.82	56.00	23.18
	4985.0	20.33	20.13	23.24	30.00	6.76	10.00	33.24	56.00	22.76
QPSK	4945.0	19.58	19.08	22.35	30.00	7.65	10.00	32.35	56.00	23.65
	4965.0	19.81	19.87	22.85	30.00	7.15	10.00	32.85	56.00	23.15
	4985.0	20.41	19.99	23.22	30.00	6.78	10.00	33.22	56.00	22.78
16-QAM	4945.0	19.63	19.08	22.37	30.00	7.63	10.00	32.37	56.00	23.63
	4965.0	19.82	19.90	22.87	30.00	7.13	10.00	32.87	56.00	23.13
	4985.0	20.19	20.00	23.11	30.00	6.89	10.00	33.11	56.00	22.89
64-QAM	4945.0	19.81	19.09	22.48	30.00	7.52	10.00	32.48	56.00	23.52
	4965.0	19.81	19.94	22.89	30.00	7.11	10.00	32.89	56.00	23.11
	4985.0	20.34	20.00	23.18	30.00	6.82	10.00	33.18	56.00	22.82

Table 6: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	19.73	19.13	22.45	30.00	7.55	19.00	41.45	56.00	14.55
	4965.0	20.01	19.59	22.82	30.00	7.18	19.00	41.82	56.00	14.18
	4985.0	20.33	20.13	23.24	30.00	6.76	19.00	42.24	56.00	13.76
QPSK	4945.0	19.58	19.08	22.35	30.00	7.65	19.00	41.35	56.00	14.65
	4965.0	19.81	19.87	22.85	30.00	7.15	19.00	41.85	56.00	14.15
	4985.0	20.41	19.99	23.22	30.00	6.78	19.00	42.22	56.00	13.78
16-QAM	4945.0	19.63	19.08	22.37	30.00	7.63	19.00	41.37	56.00	14.63
	4965.0	19.82	19.90	22.87	30.00	7.13	19.00	41.87	56.00	14.13
	4985.0	20.19	20.00	23.11	30.00	6.89	19.00	42.11	56.00	13.89
64-QAM	4945.0	19.81	19.09	22.48	30.00	7.52	19.00	41.48	56.00	14.52
	4965.0	19.81	19.94	22.89	30.00	7.11	19.00	41.89	56.00	14.11
	4985.0	20.34	20.00	23.18	30.00	6.82	19.00	42.18	56.00	13.82

Table 7: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	19.73	19.13	22.45	24.00	1.55	32.00	54.45	56.00	1.55
	4965.0	20.01	19.59	22.82	24.00	1.18	32.00	54.82	56.00	1.18
	4985.0	20.33	20.13	23.24	24.00	0.76	32.00	55.24	56.00	0.76
QPSK	4945.0	19.58	19.08	22.35	24.00	1.65	32.00	54.35	56.00	1.65
	4965.0	19.81	19.87	22.85	24.00	1.15	32.00	54.85	56.00	1.15
	4985.0	20.41	19.99	23.22	24.00	0.78	32.00	55.22	56.00	0.78
16-QAM	4945.0	19.63	19.08	22.37	24.00	1.63	32.00	54.37	56.00	1.63
	4965.0	19.82	19.90	22.87	24.00	1.13	32.00	54.87	56.00	1.13
	4985.0	20.19	20.00	23.11	24.00	0.89	32.00	55.11	56.00	0.89
64-QAM	4945.0	19.81	19.09	22.48	24.00	1.52	32.00	54.48	56.00	1.52
	4965.0	19.81	19.94	22.89	24.00	1.11	32.00	54.89	56.00	1.11
	4985.0	20.34	20.00	23.18	24.00	0.82	32.00	55.18	56.00	0.82

Table 8: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	20.57	20.00	23.30	33.00	9.70	10.00	33.30	59.00	25.70
	4965.0	20.80	20.45	23.64	33.00	9.36	10.00	33.64	59.00	25.36
	4980.0	21.13	20.76	23.96	33.00	9.04	10.00	33.96	59.00	25.04
QPSK	4950.0	20.57	19.98	23.30	33.00	9.70	10.00	33.30	59.00	25.70
	4965.0	20.83	20.53	23.69	33.00	9.31	10.00	33.69	59.00	25.31
	4980.0	21.09	20.75	23.93	33.00	9.07	10.00	33.93	59.00	25.07
16-QAM	4950.0	20.52	20.26	23.40	33.00	9.60	10.00	33.40	59.00	25.60
	4965.0	20.89	20.53	23.72	33.00	9.28	10.00	33.72	59.00	25.28
	4980.0	21.03	20.77	23.91	33.00	9.09	10.00	33.91	59.00	25.09
64-QAM	4950.0	20.51	20.32	23.43	33.00	9.57	10.00	33.43	59.00	25.57
	4965.0	20.93	20.52	23.74	33.00	9.26	10.00	33.74	59.00	25.26
	4980.0	21.08	21.14	24.12	33.00	8.88	10.00	34.12	59.00	24.88

Table 9: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	20.57	20.00	23.30	33.00	9.70	19.00	42.30	59.00	16.70
	4965.0	20.80	20.45	23.64	33.00	9.36	19.00	42.64	59.00	16.36
	4980.0	21.13	20.76	23.96	33.00	9.04	19.00	42.96	59.00	16.04
QPSK	4950.0	20.57	19.98	23.30	33.00	9.70	19.00	42.30	59.00	16.70
	4965.0	20.83	20.53	23.69	33.00	9.31	19.00	42.69	59.00	16.31
	4980.0	21.09	20.75	23.93	33.00	9.07	19.00	42.93	59.00	16.07
16-QAM	4950.0	20.52	20.26	23.40	33.00	9.60	19.00	42.40	59.00	16.60
	4965.0	20.89	20.53	23.72	33.00	9.28	19.00	42.72	59.00	16.28
	4980.0	21.03	20.77	23.91	33.00	9.09	19.00	42.91	59.00	16.09
64-QAM	4950.0	20.51	20.32	23.43	33.00	9.57	19.00	42.43	59.00	16.57
	4965.0	20.93	20.52	23.74	33.00	9.26	19.00	42.74	59.00	16.26
	4980.0	21.08	21.14	24.12	33.00	8.88	19.00	43.12	59.00	15.88

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Table 10: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	20.57	20.00	23.30	27.00	3.70	32.00	55.30	59.00	3.70
	4965.0	20.80	20.45	23.64	27.00	3.36	32.00	55.64	59.00	3.36
	4980.0	21.13	20.76	23.96	27.00	3.04	32.00	55.96	59.00	3.04
QPSK	4950.0	20.57	19.98	23.30	27.00	3.70	32.00	55.30	59.00	3.70
	4965.0	20.83	20.53	23.69	27.00	3.31	32.00	55.69	59.00	3.31
	4980.0	21.09	20.75	23.93	27.00	3.07	32.00	55.93	59.00	3.07
16-QAM	4950.0	20.52	20.26	23.40	27.00	3.60	32.00	55.40	59.00	3.60
	4965.0	20.89	20.53	23.72	27.00	3.28	32.00	55.72	59.00	3.28
	4980.0	21.03	20.77	23.91	27.00	3.09	32.00	55.91	59.00	3.09
64-QAM	4950.0	20.51	20.32	23.43	27.00	3.57	32.00	55.43	59.00	3.57
	4965.0	20.93	20.52	23.74	27.00	3.26	32.00	55.74	59.00	3.26
	4980.0	21.08	21.14	24.12	27.00	2.88	32.00	56.12	59.00	2.88

4.9 GHz: IC RSS-111

Table 11: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	22.81	23.63	26.25	27.00	0.75	10.00	36.25	53.00	16.75
	4965.0	22.77	22.75	25.77	27.00	1.23	10.00	35.77	53.00	17.23
	4987.5	23.16	22.94	26.06	27.00	0.94	10.00	36.06	53.00	16.94
QPSK	4942.5	22.63	23.64	26.17	27.00	0.83	10.00	36.17	53.00	16.83
	4965.0	22.84	22.96	25.91	27.00	1.09	10.00	35.91	53.00	17.09
	4987.5	23.22	23.51	26.38	27.00	0.62	10.00	36.38	53.00	16.62
16-QAM	4942.5	22.78	23.81	26.34	27.00	0.66	10.00	36.34	53.00	16.66
	4965.0	23.19	23.07	26.14	27.00	0.86	10.00	36.14	53.00	16.86
	4987.5	23.17	22.81	26.00	27.00	1.00	10.00	36.00	53.00	17.00
64-QAM	4942.5	22.54	23.78	26.21	27.00	0.79	10.00	36.21	53.00	16.79
	4965.0	23.40	22.72	26.08	27.00	0.92	10.00	36.08	53.00	16.92
	4987.5	23.31	23.10	26.22	27.00	0.78	10.00	36.22	53.00	16.78

Table 12: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	22.81	23.63	26.25	27.00	0.75	19.00	45.25	53.00	7.75
	4965.0	22.77	22.75	25.77	27.00	1.23	19.00	44.77	53.00	8.23
	4987.5	23.16	22.94	26.06	27.00	0.94	19.00	45.06	53.00	7.94
QPSK	4942.5	22.63	23.64	26.17	27.00	0.83	19.00	45.17	53.00	7.83
	4965.0	22.84	22.96	25.91	27.00	1.09	19.00	44.91	53.00	8.09
	4987.5	23.22	23.51	26.38	27.00	0.62	19.00	45.38	53.00	7.62
16-QAM	4942.5	22.78	23.81	26.34	27.00	0.66	19.00	45.34	53.00	7.66
	4965.0	23.19	23.07	26.14	27.00	0.86	19.00	45.14	53.00	7.86
	4987.5	23.17	22.81	26.00	27.00	1.00	19.00	45.00	53.00	8.00
64-QAM	4942.5	22.54	23.78	26.21	27.00	0.79	19.00	45.21	53.00	7.79
	4965.0	23.40	22.72	26.08	27.00	0.92	19.00	45.08	53.00	7.92
	4987.5	23.31	23.10	26.22	27.00	0.78	19.00	45.22	53.00	7.78

Table 13: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4942.5	16.90	16.89	19.91	21.00	1.09	32.00	51.91	53.00	1.09
	4965.0	16.94	16.51	19.74	21.00	1.26	32.00	51.74	53.00	1.26
	4987.5	17.35	17.19	20.28	21.00	0.72	32.00	52.28	53.00	0.72
QPSK	4942.5	17.12	16.98	20.06	21.00	0.94	32.00	52.06	53.00	0.94
	4965.0	17.04	16.50	19.79	21.00	1.21	32.00	51.79	53.00	1.21
	4987.5	17.33	17.12	20.24	21.00	0.76	32.00	52.24	53.00	0.76
16-QAM	4942.5	17.00	16.34	19.69	21.00	1.31	32.00	51.69	53.00	1.31
	4965.0	16.73	16.65	19.70	21.00	1.30	32.00	51.70	53.00	1.30
	4987.5	17.54	17.24	20.40	21.00	0.60	32.00	52.40	53.00	0.60
64-QAM	4942.5	16.57	16.38	19.49	21.00	1.51	32.00	51.49	53.00	1.51
	4965.0	16.64	16.81	19.74	21.00	1.26	32.00	51.74	53.00	1.26
	4987.5	17.44	17.08	20.27	21.00	0.73	32.00	52.27	53.00	0.73

Table 14: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	26.37	25.87	29.14	30.00	0.86	10.00	39.14	56.00	16.86
	4965.0	26.39	26.38	29.40	30.00	0.60	10.00	39.40	56.00	16.60
	4985.0	25.62	26.20	28.93	30.00	1.07	10.00	38.93	56.00	17.07
QPSK	4945.0	26.32	26.03	29.19	30.00	0.81	10.00	39.19	56.00	16.81
	4965.0	26.41	26.27	29.35	30.00	0.65	10.00	39.35	56.00	16.65
	4985.0	25.51	26.27	28.92	30.00	1.08	10.00	38.92	56.00	17.08
16-QAM	4945.0	26.19	25.81	29.01	30.00	0.99	10.00	39.01	56.00	16.99
	4965.0	26.40	26.23	29.33	30.00	0.67	10.00	39.33	56.00	16.67
	4985.0	25.68	26.24	28.98	30.00	1.02	10.00	38.98	56.00	17.02
64-QAM	4945.0	26.27	26.19	29.24	30.00	0.76	10.00	39.24	56.00	16.76
	4965.0	26.49	26.27	29.39	30.00	0.61	10.00	39.39	56.00	16.61
	4985.0	25.78	26.35	29.08	30.00	0.92	10.00	39.08	56.00	16.92

Table 15: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	26.37	25.87	29.14	30.00	0.86	19.00	48.14	56.00	7.86
	4965.0	26.39	26.38	29.40	30.00	0.60	19.00	48.40	56.00	7.60
	4985.0	26.93	27.01	29.98	30.00	0.02	19.00	48.98	56.00	7.02
QPSK	4945.0	26.32	26.03	29.19	30.00	0.81	19.00	48.19	56.00	7.81
	4965.0	26.41	26.27	29.35	30.00	0.65	19.00	48.35	56.00	7.65
	4985.0	25.51	26.87	29.25	30.00	0.75	19.00	48.25	56.00	7.75
16-QAM	4945.0	26.19	25.81	29.01	30.00	0.99	19.00	48.01	56.00	7.99
	4965.0	26.40	26.23	29.33	30.00	0.67	19.00	48.33	56.00	7.67
	4985.0	25.68	26.95	29.37	30.00	0.63	19.00	48.37	56.00	7.63
64-QAM	4945.0	26.27	26.19	29.24	30.00	0.76	19.00	48.24	56.00	7.76
	4965.0	26.49	26.27	29.39	30.00	0.61	19.00	48.39	56.00	7.61
	4985.0	25.78	26.35	29.08	30.00	0.92	19.00	48.08	56.00	7.92

Table 16: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4945.0	20.82	20.54	23.69	24.00	0.31	32.00	55.69	56.00	0.31
	4965.0	19.79	20.52	23.18	24.00	0.82	32.00	55.18	56.00	0.82
	4985.0	20.32	20.21	23.28	24.00	0.72	32.00	55.28	56.00	0.72
QPSK	4945.0	20.59	20.48	23.55	24.00	0.45	32.00	55.55	56.00	0.45
	4965.0	19.79	20.84	23.36	24.00	0.64	32.00	55.36	56.00	0.64
	4985.0	20.05	20.33	23.20	24.00	0.80	32.00	55.20	56.00	0.80
16-QAM	4945.0	20.41	20.21	23.32	24.00	0.68	32.00	55.32	56.00	0.68
	4965.0	19.68	20.53	23.14	24.00	0.86	32.00	55.14	56.00	0.86
	4985.0	20.17	20.27	23.23	24.00	0.77	32.00	55.23	56.00	0.77
64-QAM	4945.0	20.37	20.29	23.34	24.00	0.66	32.00	55.34	56.00	0.66
	4965.0	19.80	20.82	23.35	24.00	0.65	32.00	55.35	56.00	0.65
	4985.0	20.20	20.25	23.24	24.00	0.76	32.00	55.24	56.00	0.76

Table 17: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	27.41	27.64	30.54	33.00	2.46	10.00	40.54	59.00	18.46
	4965.0	27.91	27.99	30.96	33.00	2.04	10.00	40.96	59.00	18.04
	4980.0	27.90	27.84	30.88	33.00	2.12	10.00	40.88	59.00	18.12
QPSK	4950.0	27.18	27.50	30.35	33.00	2.65	10.00	40.35	59.00	18.65
	4965.0	27.64	27.57	30.62	33.00	2.38	10.00	40.62	59.00	18.38
	4980.0	28.16	28.32	31.25	33.00	1.75	10.00	41.25	59.00	17.75
16-QAM	4950.0	27.26	27.69	30.49	33.00	2.51	10.00	40.49	59.00	18.51
	4965.0	27.67	27.63	30.66	33.00	2.34	10.00	40.66	59.00	18.34
	4980.0	28.18	28.08	31.14	33.00	1.86	10.00	41.14	59.00	17.86
64-QAM	4950.0	28.04	28.12	31.09	33.00	1.91	10.00	41.09	59.00	17.91
	4965.0	28.12	28.10	31.12	33.00	1.88	10.00	41.12	59.00	17.88
	4980.0	28.07	27.99	31.04	33.00	1.96	10.00	41.04	59.00	17.96

Table 18: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	27.41	27.64	30.54	33.00	2.46	19.00	49.54	59.00	9.46
	4965.0	27.91	27.99	30.96	33.00	2.04	19.00	49.96	59.00	9.04
	4980.0	27.90	27.84	30.88	33.00	2.12	19.00	49.88	59.00	9.12
QPSK	4950.0	27.18	27.50	30.35	33.00	2.65	19.00	49.35	59.00	9.65
	4965.0	27.64	27.57	30.62	33.00	2.38	19.00	49.62	59.00	9.38
	4980.0	28.16	28.32	31.25	33.00	1.75	19.00	50.25	59.00	8.75
16-QAM	4950.0	27.26	27.69	30.49	33.00	2.51	19.00	49.49	59.00	9.51
	4965.0	27.67	27.63	30.66	33.00	2.34	19.00	49.66	59.00	9.34
	4980.0	28.18	28.08	31.14	33.00	1.86	19.00	50.14	59.00	8.86
64-QAM	4950.0	28.04	28.12	31.09	33.00	1.91	19.00	50.09	59.00	8.91
	4965.0	28.12	28.10	31.12	33.00	1.88	19.00	50.12	59.00	8.88
	4980.0	28.07	27.99	31.04	33.00	1.96	19.00	50.04	59.00	8.96

Table 19: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Power margin, dB	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	4950.0	24.03	23.88	26.97	27.00	0.03	32.00	58.97	59.00	0.03
	4965.0	23.48	23.81	26.66	27.00	0.34	32.00	58.66	59.00	0.34
	4980.0	23.84	23.91	26.89	27.00	0.11	32.00	58.89	59.00	0.11
QPSK	4950.0	23.49	23.67	26.59	27.00	0.41	32.00	58.59	59.00	0.41
	4965.0	23.45	23.74	26.61	27.00	0.39	32.00	58.61	59.00	0.39
	4980.0	23.91	23.95	26.94	27.00	0.06	32.00	58.94	59.00	0.06
16-QAM	4950.0	23.99	23.92	26.97	27.00	0.03	32.00	58.97	59.00	0.03
	4965.0	23.96	23.87	26.93	27.00	0.07	32.00	58.93	59.00	0.07
	4980.0	23.98	23.99	27.00	27.00	0.00	32.00	59.00	59.00	0.00
64-QAM	4950.0	24.08	23.73	26.92	27.00	0.08	32.00	58.92	59.00	0.08
	4965.0	23.99	23.92	26.97	27.00	0.03	32.00	58.97	59.00	0.03
	4980.0	23.98	23.87	26.94	27.00	0.06	32.00	58.94	59.00	0.06

5.2 GHz: FCC 47 CFR Part 15 Subpart E, §15.407

Table 20: 5.2 GHz: RF Power & EIRP: 5MHznchannel 10dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5155.0	10.31	10.10	13.22	27.00	13.78	9.00	22.22	36.00	13.78
	5200.0	15.95	16.43	19.21	27.00	7.79	9.00	28.21	36.00	7.79
	5247.5	15.94	16.12	19.04	27.00	7.96	9.00	28.04	36.00	7.96
64-QAM	5155.0	10.31	9.94	13.14	27.00	13.86	9.00	22.14	36.00	13.86
	5200.0	15.94	16.45	19.21	27.00	7.79	9.00	28.21	36.00	7.79
	5247.5	15.97	16.11	19.05	27.00	7.95	9.00	28.05	36.00	7.95

Note: including 1 dB cable loss

Table 21: 5.2 GHz: RF Power & EIRP: 5MHznchannel 19dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5155.0	3.77	3.37	6.58	17.00	10.42	19.00	25.58	36.00	10.42
	5200.0	6.11	6.46	9.30	17.00	7.70	19.00	28.30	36.00	7.70
	5247.5	6.06	6.20	9.14	17.00	7.86	19.00	28.14	36.00	7.86
64-QAM	5155.0	3.76	3.37	6.58	17.00	10.42	19.00	25.58	36.00	10.42
	5200.0	6.12	6.45	9.30	17.00	7.70	19.00	28.30	36.00	7.70
	5247.5	6.06	6.16	9.12	17.00	7.88	19.00	28.12	36.00	7.88

Table 22: 5.2 GHz: RF Power & EIRP: 5MHznchannel 29dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5155.0	-12.32	-13.45	-9.84	8.00	17.84	27.50	17.66	36.00	18.34
	5200.0	-2.38	-3.03	0.32	8.00	7.68	27.50	27.82	36.00	8.18
	5247.5	-2.50	-3.15	0.20	8.00	7.80	27.50	27.70	36.00	8.30
64-QAM	5155.0	-12.26	-13.50	-9.83	8.00	17.83	27.50	17.67	36.00	18.33
	5200.0	-2.34	-3.16	0.28	8.00	7.72	27.50	27.78	36.00	8.22
	5247.5	-2.53	-4.12	-0.24	8.00	8.24	27.50	27.26	36.00	8.74

Note: including 1.5 dB cable loss

Table 23: 5.2 GHz: RF Power & EIRP: 10MHznchannel 10dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5160.0	12.71	13.51	16.14	27.00	10.86	9.00	25.14	36.00	10.86
	5200.0	19.26	18.50	21.91	27.00	5.09	9.00	30.91	36.00	5.09
	5245.0	19.10	19.06	22.09	27.00	4.91	9.00	31.09	36.00	4.91
64-QAM	5160.0	12.71	13.51	16.14	27.00	10.86	9.00	25.14	36.00	10.86
	5200.0	19.38	18.52	21.98	27.00	5.02	9.00	30.98	36.00	5.02
	5245.0	19.08	19.03	22.07	27.00	4.93	9.00	31.07	36.00	4.93

Note: including 1 dB cable loss

Table 24: 5.2 GHz: RF Power & EIRP: 10MHznchannel 19dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5160.0	8.68	8.31	11.51	17.00	5.49	19.00	30.51	36.00	5.49
	5200.0	9.08	8.53	11.82	17.00	5.18	19.00	30.82	36.00	5.18
	5245.0	9.16	8.96	12.07	17.00	4.93	19.00	31.07	36.00	4.93
64-QAM	5160.0	8.70	8.30	11.51	17.00	5.49	19.00	30.51	36.00	5.49
	5200.0	9.18	8.48	11.85	17.00	5.15	19.00	30.85	36.00	5.15
	5245.0	9.10	8.96	12.04	17.00	4.96	19.00	31.04	36.00	4.96

Table 25: 5.2 GHz: RF Power & EIRP: 10MHznchannel 29dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5160.0	-7.87	-8.43	-5.13	8.00	13.13	27.50	22.37	36.00	13.63
	5200.0	0.69	0.27	3.50	8.00	4.50	27.50	31.00	36.00	5.00
	5245.0	0.48	0.20	3.35	8.00	4.65	27.50	30.85	36.00	5.15
64-QAM	5160.0	-7.87	-8.41	-5.12	8.00	13.12	27.50	22.38	36.00	13.62
	5200.0	0.67	0.28	3.49	8.00	4.51	27.50	30.99	36.00	5.01
	5245.0	0.44	0.32	3.39	8.00	4.61	27.50	30.89	36.00	5.11

Note: including 1.5 dB cable loss

Table 26: 5.2 GHz: RF Power & EIRP: 20MHznchannel 10dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5170.0	14.10	14.77	17.46	27.00	9.54	9.00	26.46	36.00	9.54
	5200.0	21.85	21.66	24.77	27.00	2.23	9.00	33.77	36.00	2.23
	5240.0	21.92	21.34	24.65	27.00	2.35	9.00	33.65	36.00	2.35
64-QAM	5170.0	14.13	15.09	17.65	27.00	9.35	9.00	26.65	36.00	9.35
	5200.0	21.95	21.55	24.76	27.00	2.24	9.00	33.76	36.00	2.24
	5240.0	21.88	21.49	24.70	27.00	2.30	9.00	33.70	36.00	2.30

Note: including 1 dB cable loss

Table 27: 5.2 GHz: RF Power & EIRP: 20MHznchannel 19dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5170.0	11.90	11.29	14.62	17.00	2.38	19.00	33.62	36.00	2.38
	5200.0	11.40	11.78	14.60	17.00	2.40	19.00	33.60	36.00	2.40
	5240.0	12.14	11.57	14.87	17.00	2.13	19.00	33.87	36.00	2.13
64-QAM	5170.0	11.93	11.29	14.63	17.00	2.37	19.00	33.63	36.00	2.37
	5200.0	11.30	11.86	14.60	17.00	2.40	19.00	33.60	36.00	2.40
	5240.0	12.20	11.48	14.87	17.00	2.13	19.00	33.87	36.00	2.13

Table 28: 5.2 GHz: RF Power & EIRP: 20MHznchannel 29dBi antenna for FCC

Modulation	Frequency (MHz)	P_{ch0} (dBm)	P_{ch1} (dBm)	Aggregated power (dBm)	Power limit (dBm)	Power margin (dBm)	Antenna gain* (dBi)	EIRP (dBm)	EIRP limit dBm)	EIRP margin (dB)
QPSK	5170.0	-6.09	-6.14	-3.10	8.00	11.10	27.50	24.40	36.00	11.60
	5200.0	2.93	2.39	5.68	8.00	2.32	27.50	33.18	36.00	2.82
	5240.0	3.71	3.24	6.49	8.00	1.51	27.50	33.99	36.00	2.01
64-QAM	5170.0	-6.14	-6.14	-3.13	8.00	11.13	27.50	24.37	36.00	11.63
	5200.0	3.05	2.38	5.74	8.00	2.26	27.50	33.24	36.00	2.76
	5240.0	3.67	3.21	6.46	8.00	1.54	27.50	33.96	36.00	2.04

Note: including 1.5 dB cable loss

5.8 GHz: FCC 47 CFR Part 15 Subpart C, §15.247/IC RSS-210, Issue 8 Annex 8

Table 29: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5727.5	18.42	18.41	21.43	26.00	4.57	10.00	31.43	36.00	4.57
	5790.0	22.34	22.18	25.27	26.00	0.73	10.00	35.27	36.00	0.73
	5847.5	20.25	20.55	23.41	26.00	2.59	10.00	33.41	36.00	2.59
QPSK	5727.5	18.42	18.40	21.42	26.00	4.58	10.00	31.42	36.00	4.58
	5790.0	22.29	22.18	25.25	26.00	0.75	10.00	35.25	36.00	0.75
	5847.5	20.29	20.50	23.41	26.00	2.59	10.00	33.41	36.00	2.59
16-QAM	5727.5	18.43	18.40	21.43	26.00	4.57	10.00	31.43	36.00	4.57
	5790.0	22.27	22.17	25.23	26.00	0.77	10.00	35.23	36.00	0.77
	5847.5	20.31	20.48	23.41	26.00	2.59	10.00	33.41	36.00	2.59
64-QAM	5727.5	18.43	18.40	21.43	26.00	4.57	10.00	31.43	36.00	4.57
	5790.0	22.26	22.18	25.23	26.00	0.77	10.00	35.23	36.00	0.77
	5847.5	20.28	20.44	23.37	26.00	2.63	10.00	33.37	36.00	2.63

Table 30: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5727.5	13.35	13.35	16.36	17.00	0.64	19.00	35.36	36.00	0.64
	5790.0	13.77	13.33	16.57	17.00	0.43	19.00	35.57	36.00	0.43
	5847.5	13.57	14.35	16.99	17.00	0.01	19.00	35.99	36.00	0.01
QPSK	5727.5	13.96	13.45	16.72	17.00	0.28	19.00	35.72	36.00	0.28
	5790.0	13.77	13.33	16.57	17.00	0.43	19.00	35.57	36.00	0.43
	5847.5	13.54	14.10	16.84	17.00	0.16	19.00	35.84	36.00	0.16
16-QAM	5727.5	13.89	13.34	16.63	17.00	0.37	19.00	35.63	36.00	0.37
	5790.0	13.77	13.34	16.57	17.00	0.43	19.00	35.57	36.00	0.43
	5847.5	13.55	14.10	16.84	17.00	0.16	19.00	35.84	36.00	0.16
64-QAM	5727.5	13.91	13.33	16.64	17.00	0.36	19.00	35.64	36.00	0.36
	5790.0	13.77	13.33	16.57	17.00	0.43	19.00	35.57	36.00	0.43
	5847.5	13.45	14.41	16.97	17.00	0.03	19.00	35.97	36.00	0.03

Table 31: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5727.5	0.68	1.10	3.91	4.00	0.09	32.00	35.91	36.00	0.09
	5790.0	0.77	0.92	3.86	4.00	0.14	32.00	35.86	36.00	0.14
	5847.5	0.54	0.98	3.78	4.00	0.22	32.00	35.78	36.00	0.22
QPSK	5727.5	0.84	1.10	3.98	4.00	0.02	32.00	35.98	36.00	0.02
	5790.0	0.78	0.91	3.86	4.00	0.14	32.00	35.86	36.00	0.14
	5847.5	0.54	0.94	3.75	4.00	0.25	32.00	35.75	36.00	0.25
16-QAM	5727.5	0.82	1.10	3.97	4.00	0.03	32.00	35.97	36.00	0.03
	5790.0	0.79	0.92	3.87	4.00	0.13	32.00	35.87	36.00	0.13
	5847.5	0.53	0.93	3.74	4.00	0.26	32.00	35.74	36.00	0.26
64-QAM	5727.5	0.86	1.10	3.99	4.00	0.01	32.00	35.99	36.00	0.01
	5790.0	0.75	0.92	3.85	4.00	0.15	32.00	35.85	36.00	0.15
	5847.5	0.51	0.93	3.74	4.00	0.26	32.00	35.74	36.00	0.26

Table 32: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5730.0	21.15	20.70	23.94	26.00	2.06	10.00	33.94	36.00	2.06
	5790.0	22.33	22.39	25.37	26.00	0.63	10.00	35.37	36.00	0.63
	5845.0	20.34	20.31	23.34	26.00	2.66	10.00	33.34	36.00	2.66
QPSK	5730.0	21.19	20.69	23.96	26.00	2.04	10.00	33.96	36.00	2.04
	5790.0	22.33	22.39	25.37	26.00	0.63	10.00	35.37	36.00	0.63
	5845.0	20.35	20.35	23.36	26.00	2.64	10.00	33.36	36.00	2.64
16-QAM	5730.0	21.12	20.69	23.92	26.00	2.08	10.00	33.92	36.00	2.08
	5790.0	22.30	22.40	25.36	26.00	0.64	10.00	35.36	36.00	0.64
	5845.0	20.36	20.26	23.32	26.00	2.68	10.00	33.32	36.00	2.68
64-QAM	5730.0	21.07	20.68	23.89	26.00	2.11	10.00	33.89	36.00	2.11
	5790.0	22.24	22.42	25.34	26.00	0.66	10.00	35.34	36.00	0.66
	5845.0	20.35	20.26	23.32	26.00	2.68	10.00	33.32	36.00	2.68

Table 33: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5730.0	14.29	13.57	16.96	17.00	0.04	19.00	35.96	36.00	0.04
	5790.0	14.00	13.64	16.83	17.00	0.17	19.00	35.83	36.00	0.17
	5845.0	13.49	13.75	16.63	17.00	0.37	19.00	35.63	36.00	0.37
QPSK	5730.0	14.28	13.60	16.96	17.00	0.04	19.00	35.96	36.00	0.04
	5790.0	13.99	13.63	16.82	17.00	0.18	19.00	35.82	36.00	0.18
	5845.0	13.50	13.34	16.43	17.00	0.57	19.00	35.43	36.00	0.57
16-QAM	5730.0	14.35	13.59	17.00	17.00	0.00	19.00	36.00	36.00	0.00
	5790.0	14.00	13.56	16.80	17.00	0.20	19.00	35.80	36.00	0.20
	5845.0	13.57	13.33	16.46	17.00	0.54	19.00	35.46	36.00	0.54
64-QAM	5730.0	14.23	13.61	16.94	17.00	0.06	19.00	35.94	36.00	0.06
	5790.0	14.00	13.52	16.78	17.00	0.22	19.00	35.78	36.00	0.22
	5845.0	13.50	13.27	16.40	17.00	0.60	19.00	35.40	36.00	0.60

Table 34: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5730.0	1.11	0.43	3.79	4.00	0.21	32.00	35.79	36.00	0.21
	5790.0	0.84	1.06	3.96	4.00	0.04	32.00	35.96	36.00	0.04
	5845.0	0.37	1.39	3.92	4.00	0.08	32.00	35.92	36.00	0.08
QPSK	5730.0	1.12	0.44	3.80	4.00	0.20	32.00	35.80	36.00	0.20
	5790.0	0.64	1.08	3.88	4.00	0.12	32.00	35.88	36.00	0.12
	5845.0	0.39	0.96	3.69	4.00	0.31	32.00	35.69	36.00	0.31
16-QAM	5730.0	1.14	0.45	3.82	4.00	0.18	32.00	35.82	36.00	0.18
	5790.0	0.81	1.07	3.95	4.00	0.05	32.00	35.95	36.00	0.05
	5845.0	0.42	0.92	3.69	4.00	0.31	32.00	35.69	36.00	0.31
64-QAM	5730.0	1.11	0.48	3.82	4.00	0.18	32.00	35.82	36.00	0.18
	5790.0	0.77	1.06	3.93	4.00	0.07	32.00	35.93	36.00	0.07
	5845.0	0.47	0.90	3.70	4.00	0.30	32.00	35.70	36.00	0.30

Table 35: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5735.0	22.30	22.74	25.54	26.00	0.46	10.00	35.54	36.00	0.46
	5790.0	22.59	22.72	25.67	26.00	0.33	10.00	35.67	36.00	0.33
	5840.0	21.53	21.65	24.60	26.00	1.40	10.00	34.60	36.00	1.40
QPSK	5735.0	22.31	22.76	25.55	26.00	0.45	10.00	35.55	36.00	0.45
	5790.0	22.66	22.72	25.70	26.00	0.30	10.00	35.70	36.00	0.30
	5840.0	21.63	21.66	24.66	26.00	1.34	10.00	34.66	36.00	1.34
16-QAM	5735.0	22.30	22.79	25.56	26.00	0.44	10.00	35.56	36.00	0.44
	5790.0	22.76	22.74	25.76	26.00	0.24	10.00	35.76	36.00	0.24
	5840.0	21.56	21.67	24.63	26.00	1.37	10.00	34.63	36.00	1.37
64-QAM	5735.0	22.29	22.73	25.53	26.00	0.47	10.00	35.53	36.00	0.47
	5790.0	22.77	22.77	25.78	26.00	0.22	10.00	35.78	36.00	0.22
	5840.0	21.53	21.67	24.61	26.00	1.39	10.00	34.61	36.00	1.39

Table 36: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5735.0	13.45	13.94	16.71	17.00	0.29	19.00	35.71	36.00	0.29
	5790.0	14.19	13.79	17.00	17.00	0.00	19.00	36.00	36.00	0.00
	5840.0	13.92	13.49	16.72	17.00	0.28	19.00	35.72	36.00	0.28
QPSK	5735.0	13.55	13.91	16.74	17.00	0.26	19.00	35.74	36.00	0.26
	5790.0	14.18	13.78	16.99	17.00	0.01	19.00	35.99	36.00	0.01
	5840.0	13.93	13.51	16.74	17.00	0.26	19.00	35.74	36.00	0.26
16-QAM	5735.0	13.54	13.88	16.72	17.00	0.28	19.00	35.72	36.00	0.28
	5790.0	14.12	13.77	16.96	17.00	0.04	19.00	35.96	36.00	0.04
	5840.0	13.36	13.50	16.44	17.00	0.56	19.00	35.44	36.00	0.56
64-QAM	5735.0	13.50	13.89	16.71	17.00	0.29	19.00	35.71	36.00	0.29
	5790.0	14.15	13.80	16.99	17.00	0.01	19.00	35.99	36.00	0.01
	5840.0	13.98	13.50	16.76	17.00	0.24	19.00	35.76	36.00	0.24

Table 37: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for FCC/IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5735.0	1.34	0.60	4.00	4.00	0.00	32.00	36.00	36.00	0.00
	5790.0	1.02	0.37	3.72	4.00	0.28	32.00	35.72	36.00	0.28
	5840.0	0.81	0.33	3.59	4.00	0.41	32.00	35.59	36.00	0.41
QPSK	5735.0	1.33	0.54	3.96	4.00	0.04	32.00	35.96	36.00	0.04
	5790.0	1.03	0.37	3.72	4.00	0.28	32.00	35.72	36.00	0.28
	5840.0	0.72	0.34	3.54	4.00	0.46	32.00	35.54	36.00	0.46
16-QAM	5735.0	1.35	0.55	3.98	4.00	0.02	32.00	35.98	36.00	0.02
	5790.0	1.05	0.36	3.73	4.00	0.27	32.00	35.73	36.00	0.27
	5840.0	0.66	0.33	3.51	4.00	0.49	32.00	35.51	36.00	0.49
64-QAM	5735.0	1.37	0.56	3.99	4.00	0.01	32.00	35.99	36.00	0.01
	5790.0	1.11	0.37	3.77	4.00	0.23	32.00	35.77	36.00	0.23
	5840.0	0.69	0.38	3.55	4.00	0.45	32.00	35.55	36.00	0.45

5.3 GHz: FCC 47 CFR Part 15 Subpart E, §15.407

Table 38: 5.3 GHz: RF Power: 5 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5252.5	8.51	7.53	11.06	13.70	2.64
	5300.0	8.45	8.66	11.57	13.70	2.14
	5345.0	7.68	7.51	10.61	13.70	3.10
QPSK	5252.5	8.50	7.55	11.06	13.70	2.64
	5300.0	8.44	8.66	11.56	13.70	2.14
	5345.0	7.62	7.63	10.64	13.70	3.07
16-QAM	5252.5	8.52	7.56	11.08	13.70	2.63
	5300.0	8.46	8.68	11.58	13.70	2.12
	5345.0	7.62	7.77	10.71	13.70	3.00
64-QAM	5252.5	8.44	7.57	11.04	13.70	2.67
	5300.0	8.49	8.68	11.60	13.70	2.11
	5345.0	7.55	7.86	10.72	13.70	2.98

Table 39: 5.3 GHz: RF Power: 5 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5252.5	-1.44	-1.38	1.60	4.70	3.10
	5300.0	-0.46	-1.22	2.19	4.70	2.52
	5345.0	-0.50	-1.42	2.07	4.70	2.63
QPSK	5252.5	-1.49	-1.33	1.60	4.70	3.10
	5300.0	-0.50	-1.01	2.26	4.70	2.44
	5345.0	-0.46	-1.38	2.11	4.70	2.59
16-QAM	5252.5	-1.47	-1.30	1.63	4.70	3.08
	5300.0	-0.50	-0.92	2.31	4.70	2.40
	5345.0	-0.49	-1.38	2.10	4.70	2.60
64-QAM	5252.5	-1.50	-1.28	1.62	4.70	3.08
	5300.0	-0.51	-0.84	2.34	4.70	2.36
	5345.0	-0.43	-1.37	2.14	4.70	2.57

Table 40: 5.3 GHz: RF Power: 5 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5252.5	-14.50	-14.38	-11.43	-8.30	3.13
	5300.0	-13.47	-13.26	-10.35	-8.30	2.06
	5345.0	-14.34	-14.41	-11.36	-8.30	3.07
QPSK	5252.5	-14.53	-14.25	-11.38	-8.30	3.08
	5300.0	-13.50	-13.25	-10.36	-8.30	2.07
	5345.0	-14.35	-14.40	-11.36	-8.30	3.07
16-QAM	5252.5	-14.51	-14.11	-11.30	-8.30	3.00
	5300.0	-13.44	-13.26	-10.34	-8.30	2.04
	5345.0	-14.38	-14.33	-11.34	-8.30	3.05
64-QAM	5252.5	-14.52	-14.13	-11.31	-8.30	3.01
	5300.0	-13.51	-13.25	-10.37	-8.30	2.07
	5345.0	-14.52	-14.34	-11.42	-8.30	3.12

Table 41: 5.3 GHz: RF Power: 10 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5255.0	10.54	10.49	13.53	16.68	3.16
	5300.0	10.46	10.81	13.65	16.68	3.03
	5342.5	10.69	11.54	14.15	16.68	2.54
QPSK	5255.0	10.50	10.51	13.52	16.68	3.17
	5300.0	10.48	10.80	13.65	16.68	3.03
	5342.5	10.63	11.55	14.12	16.68	2.56
16-QAM	5255.0	10.33	10.55	13.45	16.68	3.23
	5300.0	10.49	10.81	13.66	16.68	3.02
	5342.5	10.62	11.55	14.12	16.68	2.56
64-QAM	5255.0	10.37	10.67	13.53	16.68	3.15
	5300.0	10.54	10.79	13.68	16.68	3.01
	5342.5	10.63	11.55	14.12	16.68	2.56

Table 42: 5.3 GHz: RF Power: 10 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5255.0	1.52	1.91	4.73	7.68	2.95
	5300.0	1.58	1.83	4.72	7.68	2.97
	5342.5	2.60	2.77	5.70	7.68	1.99
QPSK	5255.0	1.61	1.89	4.76	7.68	2.92
	5300.0	1.60	1.84	4.73	7.68	2.95
	5342.5	2.61	2.64	5.64	7.68	2.05
16-QAM	5255.0	1.60	1.87	4.75	7.68	2.94
	5300.0	1.57	1.84	4.72	7.68	2.97
	5342.5	2.58	2.53	5.57	7.68	2.12
64-QAM	5255.0	1.61	1.86	4.75	7.68	2.94
	5300.0	1.64	1.85	4.76	7.68	2.93
	5342.5	2.59	2.44	5.53	7.68	2.16

Table 43: 5.3 GHz: RF Power: 10 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5255.0	-11.56	-11.33	-8.43	-5.32	3.12
	5300.0	-11.57	-11.08	-8.31	-5.32	2.99
	5342.5	-11.43	-11.50	-8.45	-5.32	3.14
QPSK	5255.0	-11.56	-11.31	-8.42	-5.32	3.11
	5300.0	-11.59	-11.06	-8.31	-5.32	2.99
	5342.5	-11.47	-11.49	-8.47	-5.32	3.15
16-QAM	5255.0	-11.59	-11.31	-8.44	-5.32	3.12
	5300.0	-11.58	-11.07	-8.31	-5.32	2.99
	5342.5	-11.33	-11.45	-8.38	-5.32	3.06
64-QAM	5255.0	-11.60	-11.30	-8.44	-5.32	3.12
	5300.0	-11.51	-11.02	-8.25	-5.32	2.93
	5342.5	-11.27	-11.47	-8.36	-5.32	3.04

Table 44: 5.3 GHz: RF Power: 20 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5260.0	13.86	13.14	16.53	19.69	3.17
	5300.0	13.97	13.15	16.59	19.69	3.10
	5337.5	14.15	14.08	17.13	19.69	2.57
QPSK	5260.0	13.85	13.12	16.51	19.69	3.18
	5300.0	13.95	13.17	16.59	19.69	3.10
	5337.5	14.00	14.10	17.06	19.69	2.63
16-QAM	5260.0	13.84	13.12	16.51	19.69	3.19
	5300.0	13.98	13.21	16.62	19.69	3.07
	5337.5	13.99	14.11	17.06	19.69	2.63
64-QAM	5260.0	13.85	13.16	16.53	19.69	3.16
	5300.0	13.96	13.24	16.63	19.69	3.07
	5337.5	14.12	14.10	17.12	19.69	2.57

Table 45: 5.3 GHz: RF Power: 20 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5260.0	4.88	4.09	7.51	10.69	3.18
	5300.0	4.81	4.08	7.47	10.69	3.22
	5337.5	5.02	4.98	8.01	10.69	2.68
QPSK	5260.0	4.85	4.10	7.50	10.69	3.19
	5300.0	4.82	4.27	7.56	10.69	3.13
	5337.5	4.94	4.97	7.97	10.69	2.73
16-QAM	5260.0	4.86	4.08	7.50	10.69	3.19
	5300.0	4.88	4.33	7.62	10.69	3.07
	5337.5	4.97	4.98	7.99	10.69	2.71
64-QAM	5260.0	4.88	4.10	7.52	10.69	3.17
	5300.0	4.87	4.47	7.68	10.69	3.01
	5337.5	4.87	4.98	7.94	10.69	2.76

Table 46: 5.3 GHz: RF Power: 20 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5260.0	-8.30	-8.11	-5.19	-2.31	2.89
	5300.0	-8.56	-8.21	-5.37	-2.31	3.06
	5337.5	-8.01	-8.10	-5.04	-2.31	2.74
QPSK	5260.0	-8.25	-8.15	-5.19	-2.31	2.88
	5300.0	-8.55	-8.21	-5.37	-2.31	3.06
	5337.5	-8.03	-8.09	-5.05	-2.31	2.74
16-QAM	5260.0	-8.29	-8.19	-5.23	-2.31	2.92
	5300.0	-8.59	-8.20	-5.38	-2.31	3.07
	5337.5	-8.02	-8.08	-5.04	-2.31	2.73
64-QAM	5260.0	-8.31	-8.20	-5.24	-2.31	2.94
	5300.0	-8.67	-8.00	-5.31	-2.31	3.00
	5337.5	-8.02	-8.08	-5.04	-2.31	2.73

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Table 47: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5252.5	10.40	9.47	12.97	17.17	4.20	10.00	22.97	23.17	0.20
	5300.0	10.33	9.45	12.92	17.17	4.25	10.00	22.92	23.17	0.25
	5345.0	10.48	9.27	12.93	17.17	4.24	10.00	22.93	23.17	0.24
QPSK	5252.5	10.42	9.38	12.94	17.17	4.23	10.00	22.94	23.17	0.23
	5300.0	10.41	9.46	12.97	17.17	4.20	10.00	22.97	23.17	0.20
	5345.0	10.48	9.22	12.91	17.17	4.26	10.00	22.91	23.17	0.26
16-QAM	5252.5	10.41	9.41	12.95	17.17	4.22	10.00	22.95	23.17	0.22
	5300.0	10.30	9.48	12.92	17.17	4.25	10.00	22.92	23.17	0.25
	5345.0	10.47	9.26	12.92	17.17	4.25	10.00	22.92	23.17	0.25
64-QAM	5252.5	10.41	9.37	12.93	17.17	4.24	10.00	22.93	23.17	0.24
	5300.0	10.28	9.48	12.91	17.17	4.26	10.00	22.91	23.17	0.26
	5345.0	10.30	9.28	12.83	17.17	4.34	10.00	22.83	23.17	0.34

Table 48: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5252.5	1.28	0.56	3.95	17.17	13.22	19.00	22.95	23.17	0.22
	5300.0	1.34	0.56	3.98	17.17	13.19	19.00	22.98	23.17	0.19
	5345.0	1.36	0.52	3.97	17.17	13.20	19.00	22.97	23.17	0.20
QPSK	5252.5	1.28	0.55	3.94	17.17	13.23	19.00	22.94	23.17	0.23
	5300.0	1.40	0.52	3.99	17.17	13.18	19.00	22.99	23.17	0.18
	5345.0	1.38	0.51	3.98	17.17	13.19	19.00	22.98	23.17	0.19
16-QAM	5252.5	1.29	0.55	3.95	17.17	13.22	19.00	22.95	23.17	0.22
	5300.0	1.42	0.49	3.99	17.17	13.18	19.00	22.99	23.17	0.18
	5345.0	1.38	0.53	3.99	17.17	13.18	19.00	22.99	23.17	0.18
64-QAM	5252.5	1.25	0.48	3.89	17.17	13.28	19.00	22.89	23.17	0.28
	5300.0	1.41	0.51	3.99	17.17	13.18	19.00	22.99	23.17	0.18
	5345.0	1.37	0.51	3.97	17.17	13.20	19.00	22.97	23.17	0.20

Table 49: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5252.5	-11.54	-12.56	-9.01	17.17	26.18	32.00	22.99	23.17	0.18
	5300.0	-11.56	-12.63	-9.05	17.17	26.22	32.00	22.95	23.17	0.22
	5345.0	-11.55	-12.69	-9.07	17.17	26.24	32.00	22.93	23.17	0.24
QPSK	5252.5	-11.55	-12.55	-9.01	17.17	26.18	32.00	22.99	23.17	0.18
	5300.0	-11.52	-12.59	-9.01	17.17	26.18	32.00	22.99	23.17	0.18
	5345.0	-11.55	-12.66	-9.06	17.17	26.23	32.00	22.94	23.17	0.23
16-QAM	5252.5	-11.58	-12.54	-9.02	17.17	26.19	32.00	22.98	23.17	0.19
	5300.0	-11.59	-12.68	-9.09	17.17	26.26	32.00	22.91	23.17	0.26
	5345.0	-11.54	-12.65	-9.05	17.17	26.22	32.00	22.95	23.17	0.22
64-QAM	5252.5	-11.57	-12.52	-9.01	17.17	26.18	32.00	22.99	23.17	0.18
	5300.0	-11.57	-12.66	-9.07	17.17	26.24	32.00	22.93	23.17	0.24
	5345.0	-11.51	-12.65	-9.03	17.17	26.20	32.00	22.97	23.17	0.20

Table 50: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5255.0	10.37	9.38	12.91	20.18	7.26	10.00	22.91	26.18	3.26
	5300.0	10.36	8.68	12.61	20.18	7.56	10.00	22.61	26.18	3.56
	5342.5	10.48	9.32	12.95	20.18	7.23	10.00	22.95	26.18	3.23
QPSK	5255.0	10.35	9.35	12.89	20.18	7.29	10.00	22.89	26.18	3.29
	5300.0	10.37	8.72	12.63	20.18	7.54	10.00	22.63	26.18	3.54
	5342.5	10.47	9.33	12.95	20.18	7.23	10.00	22.95	26.18	3.23
16-QAM	5255.0	10.36	9.34	12.89	20.18	7.28	10.00	22.89	26.18	3.28
	5300.0	10.44	8.69	12.66	20.18	7.51	10.00	22.66	26.18	3.51
	5342.5	10.50	9.35	12.97	20.18	7.20	10.00	22.97	26.18	3.20
64-QAM	5255.0	10.36	9.36	12.90	20.18	7.28	10.00	22.90	26.18	3.28
	5300.0	10.43	8.79	12.70	20.18	7.48	10.00	22.70	26.18	3.48
	5342.5	10.54	9.32	12.98	20.18	7.19	10.00	22.98	26.18	3.19

Table 51: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5255.0	0.31	0.64	3.49	20.18	16.69	19.00	22.49	26.18	3.69
	5300.0	0.43	0.81	3.63	20.18	16.54	19.00	22.63	26.18	3.54
	5342.5	1.48	0.33	3.95	20.18	16.22	19.00	22.95	26.18	3.22
QPSK	5255.0	0.33	0.61	3.48	20.18	16.69	19.00	22.48	26.18	3.69
	5300.0	0.41	0.83	3.64	20.18	16.54	19.00	22.64	26.18	3.54
	5342.5	1.44	0.34	3.94	20.18	16.24	19.00	22.94	26.18	3.24
16-QAM	5255.0	0.36	0.63	3.51	20.18	16.67	19.00	22.51	26.18	3.67
	5300.0	0.41	0.83	3.64	20.18	16.54	19.00	22.64	26.18	3.54
	5342.5	1.46	0.34	3.95	20.18	16.23	19.00	22.95	26.18	3.23
64-QAM	5255.0	0.35	0.60	3.49	20.18	16.69	19.00	22.49	26.18	3.69
	5300.0	0.35	0.87	3.63	20.18	16.55	19.00	22.63	26.18	3.55
	5342.5	1.53	0.33	3.98	20.18	16.19	19.00	22.98	26.18	3.19

Table 52: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5255.0	-11.65	-12.65	-9.11	20.18	29.29	32.00	22.89	26.18	3.29
	5300.0	-11.64	-12.44	-9.01	20.18	29.19	32.00	22.99	26.18	3.19
	5342.5	-12.56	-12.59	-9.56	20.18	29.74	32.00	22.44	26.18	3.74
QPSK	5255.0	-11.60	-12.64	-9.08	20.18	29.25	32.00	22.92	26.18	3.25
	5300.0	-11.65	-12.45	-9.02	20.18	29.20	32.00	22.98	26.18	3.20
	5342.5	-12.51	-12.57	-9.53	20.18	29.70	32.00	22.47	26.18	3.70
16-QAM	5255.0	-11.61	-12.66	-9.09	20.18	29.27	32.00	22.91	26.18	3.27
	5300.0	-11.66	-12.44	-9.02	20.18	29.20	32.00	22.98	26.18	3.20
	5342.5	-12.49	-12.60	-9.53	20.18	29.71	32.00	22.47	26.18	3.71
64-QAM	5255.0	-11.59	-12.62	-9.06	20.18	29.24	32.00	22.94	26.18	3.24
	5300.0	-11.66	-12.43	-9.02	20.18	29.19	32.00	22.98	26.18	3.19
	5342.5	-12.49	-12.62	-9.54	20.18	29.72	32.00	22.46	26.18	3.72

Table 53: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5260.0	9.81	9.97	12.90	23.16	10.26	10.00	22.90	29.16	6.26
	5300.0	9.70	10.20	12.97	23.16	10.19	10.00	22.97	29.16	6.19
	5337.5	9.97	9.92	12.96	23.16	10.20	10.00	22.96	29.16	6.20
QPSK	5260.0	9.77	10.00	12.90	23.16	10.26	10.00	22.90	29.16	6.26
	5300.0	9.65	10.16	12.92	23.16	10.24	10.00	22.92	29.16	6.24
	5337.5	9.94	9.92	12.94	23.16	10.22	10.00	22.94	29.16	6.22
16-QAM	5260.0	9.75	9.99	12.88	23.16	10.28	10.00	22.88	29.16	6.28
	5300.0	9.69	10.18	12.95	23.16	10.21	10.00	22.95	29.16	6.21
	5337.5	9.92	9.95	12.95	23.16	10.21	10.00	22.95	29.16	6.21
64-QAM	5260.0	9.73	10.00	12.88	23.16	10.28	10.00	22.88	29.16	6.28
	5300.0	9.76	10.17	12.98	23.16	10.18	10.00	22.98	29.16	6.18
	5337.5	9.92	9.94	12.94	23.16	10.22	10.00	22.94	29.16	6.22

Table 54: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5260.0	0.62	1.19	3.92	23.16	19.23	19.00	22.92	29.16	6.23
	5300.0	0.70	0.92	3.82	23.16	19.34	19.00	22.82	29.16	6.34
	5337.5	0.93	-0.06	3.47	23.16	19.69	19.00	22.47	29.16	6.69
QPSK	5260.0	0.61	1.18	3.91	23.16	19.24	19.00	22.91	29.16	6.24
	5300.0	0.78	0.93	3.87	23.16	19.29	19.00	22.87	29.16	6.29
	5337.5	0.94	-0.09	3.47	23.16	19.69	19.00	22.47	29.16	6.69
16-QAM	5260.0	0.62	1.10	3.88	23.16	19.28	19.00	22.88	29.16	6.28
	5300.0	0.80	0.94	3.88	23.16	19.28	19.00	22.88	29.16	6.28
	5337.5	1.00	-0.10	3.50	23.16	19.66	19.00	22.50	29.16	6.66
64-QAM	5260.0	0.62	1.02	3.83	23.16	19.32	19.00	22.83	29.16	6.32
	5300.0	0.82	0.93	3.89	23.16	19.27	19.00	22.89	29.16	6.27
	5337.5	0.97	-0.09	3.48	23.16	19.68	19.00	22.48	29.16	6.68

Table 55: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5260.0	-12.14	-12.02	-9.07	23.16	32.23	32.00	22.93	29.16	6.23
	5300.0	-12.15	-11.91	-9.02	23.16	32.18	32.00	22.98	29.16	6.18
	5337.5	-12.20	-11.91	-9.04	23.16	32.20	32.00	22.96	29.16	6.20
QPSK	5260.0	-12.14	-12.01	-9.06	23.16	32.22	32.00	22.94	29.16	6.22
	5300.0	-12.19	-11.88	-9.02	23.16	32.18	32.00	22.98	29.16	6.18
	5337.5	-12.18	-11.93	-9.04	23.16	32.20	32.00	22.96	29.16	6.20
16-QAM	5260.0	-12.19	-12.00	-9.08	23.16	32.24	32.00	22.92	29.16	6.24
	5300.0	-12.18	-11.96	-9.06	23.16	32.22	32.00	22.94	29.16	6.22
	5337.5	-12.22	-11.96	-9.08	23.16	32.24	32.00	22.92	29.16	6.24
64-QAM	5260.0	-12.22	-12.00	-9.10	23.16	32.26	32.00	22.90	29.16	6.26
	5300.0	-12.21	-11.84	-9.01	23.16	32.17	32.00	22.99	29.16	6.17
	5337.5	-12.19	-11.96	-9.06	23.16	32.22	32.00	22.94	29.16	6.22

5.4 GHz: FCC 47 CFR Part 15 Subpart E, §15.407

Table 56: 5.4 GHz: RF Power: 5 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5472.5	7.93	7.91	10.93	13.65	2.72
	5570.0	8.31	7.58	10.97	13.65	2.68
	5722.5	8.60	8.10	11.37	13.65	2.28
QPSK	5472.5	7.95	7.82	10.90	13.65	2.75
	5570.0	8.20	7.55	10.90	13.65	2.75
	5722.5	8.61	7.97	11.31	13.65	2.33
16-QAM	5472.5	7.99	7.77	10.89	13.65	2.75
	5570.0	8.17	7.66	10.93	13.65	2.71
	5722.5	8.57	7.99	11.30	13.65	2.35
64-QAM	5472.5	7.99	7.68	10.85	13.65	2.80
	5570.0	8.15	7.56	10.88	13.65	2.77
	5722.5	8.55	7.91	11.25	13.65	2.39

Table 57: 5.4 GHz: RF Power: 5 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5472.5	-1.00	-1.48	1.78	4.65	2.87
	5570.0	-0.73	-1.46	1.93	4.65	2.72
	5722.5	0.40	-0.41	3.02	4.65	1.62
QPSK	5472.5	-1.01	-1.50	1.76	4.65	2.88
	5570.0	-0.77	-1.48	1.90	4.65	2.75
	5722.5	0.44	-0.41	3.05	4.65	1.60
16-QAM	5472.5	-1.02	-1.51	1.75	4.65	2.89
	5570.0	-0.75	-1.52	1.89	4.65	2.75
	5722.5	0.53	-0.43	3.09	4.65	1.56
64-QAM	5472.5	-1.02	-1.55	1.73	4.65	2.91
	5570.0	-0.71	-1.55	1.90	4.65	2.75
	5722.5	0.59	-0.42	3.12	4.65	1.52

Table 58: 5.4 GHz: RF Power: 5 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5472.5	-14.23	-14.92	-11.55	-8.35	3.20
	5570.0	-13.65	-14.25	-10.93	-8.35	2.58
	5722.5	-12.96	-13.55	-10.23	-8.35	1.88
QPSK	5472.5	-14.37	-15.05	-11.69	-8.35	3.33
	5570.0	-13.66	-14.30	-10.96	-8.35	2.60
	5722.5	-12.99	-13.44	-10.20	-8.35	1.85
16-QAM	5472.5	-14.44	-14.99	-11.70	-8.35	3.34
	5570.0	-13.71	-14.33	-11.00	-8.35	2.65
	5722.5	-13.01	-13.49	-10.23	-8.35	1.88
64-QAM	5472.5	-14.58	-14.80	-11.68	-8.35	3.32
	5570.0	-13.68	-14.29	-10.96	-8.35	2.61
	5722.5	-13.00	-13.46	-10.21	-8.35	1.86

Table 59: 5.4 GHz: RF Power: 10 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5475.0	10.33	11.13	13.76	16.63	2.87
	5570.0	10.69	10.29	13.50	16.63	3.12
	5720.0	11.07	10.79	13.94	16.63	2.69
QPSK	5475.0	10.25	11.13	13.72	16.63	2.91
	5570.0	10.72	10.30	13.53	16.63	3.10
	5720.0	11.09	10.80	13.96	16.63	2.67
16-QAM	5475.0	10.26	11.14	13.73	16.63	2.90
	5570.0	10.73	10.33	13.54	16.63	3.08
	5720.0	11.10	10.82	13.97	16.63	2.66
64-QAM	5475.0	10.27	11.11	13.72	16.63	2.91
	5570.0	10.74	10.43	13.60	16.63	3.03
	5720.0	11.09	10.84	13.98	16.63	2.65

Table 60: 5.4 GHz: RF Power: 10 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5475.0	1.98	0.79	4.44	7.63	3.19
	5570.0	1.34	0.61	4.00	7.63	3.63
	5720.0	2.00	1.45	4.74	7.63	2.88
QPSK	5475.0	1.99	0.77	4.43	7.63	3.20
	5570.0	1.30	0.61	3.98	7.63	3.65
	5720.0	2.01	1.44	4.74	7.63	2.88
16-QAM	5475.0	2.00	0.75	4.43	7.63	3.20
	5570.0	1.31	0.61	3.98	7.63	3.64
	5720.0	2.01	1.44	4.74	7.63	2.88
64-QAM	5475.0	2.02	0.79	4.46	7.63	3.17
	5570.0	1.31	0.61	3.98	7.63	3.64
	5720.0	2.01	1.50	4.77	7.63	2.86

Table 61: 5.4 GHz: RF Power: 10 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5475.0	-11.03	-11.85	-8.41	-5.37	3.04
	5570.0	-11.61	-11.97	-8.78	-5.37	3.40
	5720.0	-11.10	-12.05	-8.54	-5.37	3.17
QPSK	5475.0	-11.00	-11.83	-8.38	-5.37	3.01
	5570.0	-11.62	-11.95	-8.77	-5.37	3.40
	5720.0	-11.10	-12.00	-8.52	-5.37	3.14
16-QAM	5475.0	-10.99	-11.81	-8.37	-5.37	3.00
	5570.0	-11.61	-11.93	-8.76	-5.37	3.39
	5720.0	-11.10	-11.92	-8.48	-5.37	3.11
64-QAM	5475.0	-10.99	-11.81	-8.37	-5.37	3.00
	5570.0	-11.60	-11.93	-8.75	-5.37	3.38
	5720.0	-11.11	-11.74	-8.40	-5.37	3.03

Table 62: 5.4 GHz: RF Power: 20 MHz channel & 10 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5480.0	14.05	13.49	16.79	19.66	2.87
	5570.0	13.32	13.65	16.50	19.66	3.16
	5715.0	13.78	13.09	16.46	19.66	3.20
QPSK	5480.0	14.07	13.51	16.81	19.66	2.85
	5570.0	13.33	13.68	16.52	19.66	3.14
	5715.0	13.48	13.10	16.30	19.66	3.35
16-QAM	5480.0	14.08	13.53	16.82	19.66	2.83
	5570.0	13.34	13.72	16.54	19.66	3.11
	5715.0	13.76	13.11	16.46	19.66	3.20
64-QAM	5480.0	14.08	13.56	16.84	19.66	2.82
	5570.0	13.35	13.86	16.62	19.66	3.03
	5715.0	13.77	13.12	16.47	19.66	3.19

Table 63: 5.4 GHz: RF Power: 20 MHz channel & 19 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5480.0	4.42	5.11	7.79	10.66	2.87
	5570.0	4.74	5.03	7.90	10.66	2.76
	5715.0	4.74	4.37	7.57	10.66	3.09
QPSK	5480.0	4.41	5.11	7.78	10.66	2.87
	5570.0	4.75	5.03	7.90	10.66	2.76
	5715.0	4.78	4.40	7.60	10.66	3.05
16-QAM	5480.0	4.41	5.11	7.78	10.66	2.87
	5570.0	4.75	5.03	7.90	10.66	2.76
	5715.0	4.79	4.41	7.61	10.66	3.04
64-QAM	5480.0	4.41	5.12	7.79	10.66	2.87
	5570.0	4.75	5.02	7.90	10.66	2.76
	5715.0	4.71	4.45	7.59	10.66	3.07

Table 64: 5.4 GHz: RF Power: 20 MHz channel & 32 dBi antenna for FCC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)
BPSK	5480.0	-8.56	-8.28	-5.41	-2.34	3.07
	5570.0	-8.45	-8.88	-5.65	-2.34	3.31
	5715.0	-8.12	-8.61	-5.35	-2.34	3.01
QPSK	5480.0	-8.55	-8.25	-5.39	-2.34	3.04
	5570.0	-8.45	-8.91	-5.66	-2.34	3.32
	5715.0	-8.13	-8.66	-5.38	-2.34	3.03
16-QAM	5480.0	-8.53	-8.26	-5.38	-2.34	3.04
	5570.0	-8.44	-8.92	-5.66	-2.34	3.32
	5715.0	-8.14	-8.64	-5.37	-2.34	3.03
64-QAM	5480.0	-8.52	-8.25	-5.37	-2.34	3.03
	5570.0	-8.43	-8.93	-5.66	-2.34	3.32
	5715.0	-8.16	-8.58	-5.35	-2.34	3.01

5.4 GHz: FCC 47 CFR Part 15 Subpart E, §15.407 / IC RSS-210, Issue 8 Annex 9

Table 65: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5472.5	10.22	9.80	13.03	17.15	4.12	10.00	23.03	23.15	0.12
	5570.0	10.33	9.71	13.04	17.15	4.11	10.00	23.04	23.15	0.11
	5722.5	10.75	9.26	13.08	17.15	4.07	10.00	23.08	23.15	0.07
QPSK	5472.5	10.19	9.72	12.97	17.15	4.18	10.00	22.97	23.15	0.18
	5570.0	10.40	9.73	13.09	17.15	4.06	10.00	23.09	23.15	0.06
	5722.5	10.71	9.26	13.06	17.15	4.09	10.00	23.06	23.15	0.09
16-QAM	5472.5	10.21	9.91	13.07	17.15	4.08	10.00	23.07	23.15	0.08
	5570.0	10.41	9.69	13.08	17.15	4.07	10.00	23.08	23.15	0.07
	5722.5	10.74	9.26	13.07	17.15	4.08	10.00	23.07	23.15	0.08
64-QAM	5472.5	10.22	9.98	13.11	17.15	4.04	10.00	23.11	23.15	0.04
	5570.0	10.43	9.65	13.07	17.15	4.08	10.00	23.07	23.15	0.08
	5722.5	10.79	9.28	13.11	17.15	4.04	10.00	23.11	23.15	0.04

Table 66: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5472.5	0.99	0.39	3.71	17.15	13.44	19.00	22.71	23.15	0.44
	5570.0	1.20	0.84	4.03	17.15	13.11	19.00	23.03	23.15	0.11
	5722.5	0.77	0.81	3.80	17.15	13.35	19.00	22.80	23.15	0.35
QPSK	5472.5	1.00	0.40	3.72	17.15	13.43	19.00	22.72	23.15	0.43
	5570.0	1.21	0.83	4.03	17.15	13.11	19.00	23.03	23.15	0.11
	5722.5	0.77	0.80	3.80	17.15	13.35	19.00	22.80	23.15	0.35
16-QAM	5472.5	1.01	0.40	3.73	17.15	13.42	19.00	22.73	23.15	0.42
	5570.0	1.22	0.83	4.04	17.15	13.11	19.00	23.04	23.15	0.11
	5722.5	0.79	0.81	3.81	17.15	13.34	19.00	22.81	23.15	0.34
64-QAM	5472.5	1.07	0.41	3.76	17.15	13.39	19.00	22.76	23.15	0.39
	5570.0	1.21	0.86	4.05	17.15	13.10	19.00	23.05	23.15	0.10
	5722.5	0.78	0.78	3.79	17.15	13.36	19.00	22.79	23.15	0.36

Table 67: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5472.5	-11.91	-12.19	-9.04	17.15	26.19	32	22.96	23.15	0.19
	5570	-11.84	-12.37	-9.09	17.15	26.24	32	22.91	23.15	0.24
	5722.5	-12.20	-12.58	-9.37	17.15	26.52	32	22.63	23.15	0.52
QPSK	5472.5	-11.93	-12.21	-9.06	17.15	26.21	32	22.94	23.15	0.21
	5570	-11.79	-12.25	-9.00	17.15	26.15	32	23.00	23.15	0.15
	5722.5	-12.22	-12.50	-9.35	17.15	26.49	32	22.65	23.15	0.49
16-QAM	5472.5	-11.96	-12.17	-9.05	17.15	26.2	32	22.95	23.15	0.2
	5570	-11.79	-12.28	-9.02	17.15	26.17	32	22.98	23.15	0.17
	5722.5	-12.23	-12.60	-9.40	17.15	26.55	32	22.60	23.15	0.55
64-QAM	5472.5	-11.92	-12.13	-9.01	17.15	26.16	32	22.99	23.15	0.16
	5570	-11.77	-12.3	-9.02	17.15	26.17	32	22.98	23.15	0.17
	5722.5	-12.22	-12.49	-9.34	17.15	26.49	32	22.66	23.15	0.49

Table 68: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5475.0	13.30	12.83	16.08	20.17	4.09	10.00	26.08	26.17	0.09
	5570.0	12.60	12.71	15.67	20.17	4.50	10.00	25.67	26.17	0.50
	5720.0	12.91	13.15	16.04	20.17	4.13	10.00	26.04	26.17	0.13
QPSK	5475.0	13.28	12.85	16.08	20.17	4.09	10.00	26.08	26.17	0.09
	5570.0	12.60	12.69	15.66	20.17	4.51	10.00	25.66	26.17	0.51
	5720.0	12.91	13.15	16.04	20.17	4.13	10.00	26.04	26.17	0.13
16-QAM	5475.0	13.29	12.90	16.11	20.17	4.06	10.00	26.11	26.17	0.06
	5570.0	12.61	12.70	15.67	20.17	4.50	10.00	25.67	26.17	0.50
	5720.0	12.94	13.15	16.06	20.17	4.11	10.00	26.06	26.17	0.11
64-QAM	5475.0	13.32	12.93	16.14	20.17	4.03	10.00	26.14	26.17	0.03
	5570.0	12.60	12.70	15.66	20.17	4.51	10.00	25.66	26.17	0.51
	5720.0	12.93	13.16	16.06	20.17	4.11	10.00	26.06	26.17	0.11

Table 69: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5475.0	4.19	3.61	6.92	20.17	13.25	19.00	25.92	26.17	0.25
	5570.0	4.43	3.83	7.15	20.17	13.02	19.00	26.15	26.17	0.02
	5720.0	3.83	3.68	6.77	20.17	13.40	19.00	25.77	26.17	0.40
QPSK	5475.0	4.20	3.60	6.92	20.17	13.25	19.00	25.92	26.17	0.25
	5570.0	4.42	3.83	7.15	20.17	13.02	19.00	26.15	26.17	0.02
	5720.0	3.80	3.74	6.78	20.17	13.39	19.00	25.78	26.17	0.39
16-QAM	5475.0	4.33	3.62	7.00	20.17	13.17	19.00	26.00	26.17	0.17
	5570.0	4.42	3.83	7.15	20.17	13.02	19.00	26.15	26.17	0.02
	5720.0	3.78	3.86	6.83	20.17	13.34	19.00	25.83	26.17	0.34
64-QAM	5475.0	4.36	3.61	7.01	20.17	13.16	19.00	26.01	26.17	0.16
	5570.0	4.42	3.84	7.15	20.17	13.02	19.00	26.15	26.17	0.02
	5720.0	3.76	3.88	6.83	20.17	13.34	19.00	25.83	26.17	0.34

Table 70: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5475.0	-8.91	-9.13	-6.01	20.17	26.18	32.00	25.99	26.17	0.18
	5570.0	-8.72	-9.27	-5.98	20.17	26.15	32.00	26.02	26.17	0.15
	5720.0	-8.09	-9.85	-5.87	20.17	26.04	32.00	26.13	26.17	0.04
QPSK	5475.0	-8.92	-9.10	-6.00	20.17	26.17	32.00	26.00	26.17	0.17
	5570.0	-8.75	-9.20	-5.96	20.17	26.13	32.00	26.04	26.17	0.13
	5720.0	-8.10	-9.83	-5.87	20.17	26.04	32.00	26.13	26.17	0.04
16-QAM	5475.0	-8.91	-9.08	-5.98	20.17	26.15	32.00	26.02	26.17	0.15
	5570.0	-8.65	-9.17	-5.89	20.17	26.06	32.00	26.11	26.17	0.06
	5720.0	-8.08	-9.87	-5.87	20.17	26.04	32.00	26.13	26.17	0.04
64-QAM	5475.0	-8.90	-9.04	-5.96	20.17	26.13	32.00	26.04	26.17	0.13
	5570.0	-8.66	-9.18	-5.90	20.17	26.07	32.00	26.10	26.17	0.07
	5720.0	-8.08	-9.84	-5.86	20.17	26.03	32.00	26.14	26.17	0.03

Table 71: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5480.0	15.45	15.94	18.71	23.16	4.45	10.00	28.71	29.16	0.45
	5570.0	15.88	16.10	19.00	23.16	4.16	10.00	29.00	29.16	0.16
	5715.0	16.27	15.82	19.06	23.16	4.10	10.00	29.06	29.16	0.10
QPSK	5480.0	15.45	15.97	18.73	23.16	4.43	10.00	28.73	29.16	0.43
	5570.0	15.83	16.09	18.97	23.16	4.19	10.00	28.97	29.16	0.19
	5715.0	16.22	15.93	19.09	23.16	4.07	10.00	29.09	29.16	0.07
16-QAM	5480.0	15.44	15.96	18.72	23.16	4.44	10.00	28.72	29.16	0.44
	5570.0	15.85	16.10	18.99	23.16	4.17	10.00	28.99	29.16	0.17
	5715.0	16.21	16.00	19.12	23.16	4.04	10.00	29.12	29.16	0.04
64-QAM	5480.0	15.47	15.96	18.73	23.16	4.43	10.00	28.73	29.16	0.43
	5570.0	15.91	16.11	19.02	23.16	4.14	10.00	29.02	29.16	0.14
	5715.0	16.18	16.03	19.12	23.16	4.04	10.00	29.12	29.16	0.04

Table 72: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5480.0	7.28	6.64	9.98	23.16	13.18	19.00	28.98	29.16	0.18
	5570.0	6.44	7.01	9.74	23.16	13.41	19.00	28.74	29.16	0.41
	5715.0	6.35	7.06	9.73	23.16	13.43	19.00	28.73	29.16	0.43
QPSK	5480.0	7.26	6.62	9.96	23.16	13.20	19.00	28.96	29.16	0.20
	5570.0	6.45	7.02	9.75	23.16	13.40	19.00	28.75	29.16	0.40
	5715.0	6.34	7.08	9.74	23.16	13.42	19.00	28.74	29.16	0.42
16-QAM	5480.0	7.24	6.63	9.96	23.16	13.20	19.00	28.96	29.16	0.20
	5570.0	6.43	7.02	9.75	23.16	13.41	19.00	28.75	29.16	0.41
	5715.0	6.35	7.09	9.75	23.16	13.41	19.00	28.75	29.16	0.41
64-QAM	5480.0	7.37	6.57	10.00	23.16	13.16	19.00	29.00	29.16	0.16
	5570.0	6.47	7.03	9.77	23.16	13.39	19.00	28.77	29.16	0.39
	5715.0	6.35	7.10	9.75	23.16	13.41	19.00	28.75	29.16	0.41

Table 73: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC

Modulation	Frequency MHz	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Output power limit (dBm)	Output power margin (dB)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	5480.0	-6.43	-6.13	-3.27	23.16	26.43	32.00	28.73	29.16	0.43
	5570.0	-6.42	-5.94	-3.16	23.16	26.32	32.00	28.84	29.16	0.32
	5715.0	-6.13	-5.65	-2.87	23.16	26.03	32.00	29.13	29.16	0.03
QPSK	5480.0	-6.43	-6.14	-3.27	23.16	26.43	32.00	28.73	29.16	0.43
	5570.0	-6.41	-5.95	-3.16	23.16	26.32	32.00	28.84	29.16	0.32
	5715.0	-6.12	-5.65	-2.87	23.16	26.03	32.00	29.13	29.16	0.03
16-QAM	5480.0	-6.40	-6.15	-3.26	23.16	26.42	32.00	28.74	29.16	0.42
	5570.0	-6.40	-5.96	-3.16	23.16	26.32	32.00	28.84	29.16	0.32
	5715.0	-6.12	-5.64	-2.86	23.16	26.02	32.00	29.14	29.16	0.02
64-QAM	5480.0	-6.42	-6.11	-3.25	23.16	26.41	32.00	28.75	29.16	0.41
	5570.0	-6.39	-5.92	-3.14	23.16	26.30	32.00	28.86	29.16	0.30
	5715.0	-6.11	-5.63	-2.85	23.16	26.01	32.00	29.15	29.16	0.01

5 Regulatory Notices

5.1.1 FCC Notices

Deployment in USA

The following notices about deployment in the USA are included in training and documentation provided to professional installers and operators of the final product:

1. The final product must be professionally installed.
2. UNII-1 band, 5150-5250MHz, complies with the new rules for U-NII devices adopted under Docket No. 13-49 for outdoor use.
3. WARNING -- FCC RF Exposure Warnings

   To satisfy FCC RF exposure requirements for RF transmitting devices, the following distances should be maintained between the antenna of this device and persons during device operation:

Table 74: FCC: RDL-3000-RMG Recommended Safe Distances

Frequency (MHz)	Deployment	Separation Distance
4900	PMP	260 cm (103") or more
5200	PMP	20 cm (7.8") or more
5300	PMP	20 cm (7.8") or more
5400	PMP	20 cm (7.8") or more
5800	PMP	20 cm (7.8") or more

   To ensure compliance, operation at closer than these distances is not recommended. The antenna used for this transmitter must not be collocated in conjunction with any other antenna or transmitter.

4. FCC Information to Users @ FCC 15.105:

   NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

   This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

   - Reorient or relocate the receiving antenna.

   - Increase the separation between the equipment and receiver.

   - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

   - Consult the dealer or an experienced radio/TV technician for help.

   Where DFS is required by regional regulations, this function is permanently enabled at the factory and can not be disabled by the installer or end-user.

5. FCC Information to Users @ FCC 15.19:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

6. FCC Information to Users @ FCC 15.21:

Warning: Changes or modifications not expressly approved by Redline Communications could void the user's authority to operate the equipment.

FCC Recommendations to UNII band Users

Redline, in complete cooperation with the FCC, instructs professional installers and operators of this equipment in the UNII band to follow these guidelines.

Review Table 3: Notice - FCC - TDWR System Locations to determine if the intended deployment location is near a TDWR site.

1. Operation in the TDWR band of 5600-5650 MHz is not permitted. The equipment does not allow the operator to use Web, CLI, or SNMP to set a frequency that overlaps this range.
2. Operation in the 5570-5680 MHz band (excluding 5600-5650 MHz) is permitted beyond 35 km (22 mi) AND not in line-of-sight of a TDWR site.
3. Operation in the 5570-5680 MHz band (excluding 5600-5650 MHz) within 35 km (22 mi) OR in line-of-sight of a TDWR site is allowed by observing a 30 MHz upper and lower guard band on the operational frequency of the nearby TWDR station.

   For example, if the nearby TDWR is Miami (5605 MHz), the base station frequency setting must exclude channels with center frequencies from 5575 MHz (30 MHz below 5605) to 5635 MHz (30 MHz above 5605).

   It is recommended that the operator register in the voluntary WISPA sponsored database. Go to the www.wispa.org website and click on TDWR to view more information and register in the online database.

Frequency selection is regulated by a regional code integrated into each options key. This feature enforces compliance to regional regulatory statutes. Each options key is keyed to the unique MAC address of an RDL-3000 radio platform. Options keys can be generated only by Redline and its authorized agents. End-users can not generate or modify options keys (to obtain or alter regional codes).

Redline provides technical training programs and information covering network design and installation for Redline distributors, value added resellers, installers, and other partners. This program is intended in part to train participants to a level of understanding where they are competent to order, setup and configure the Redline wireless equipment to be in compliance with regulatory requirements in the region where this equipment is installed. Redline sales order processing is also trained to verify that regional codes are consistent with the intended deployment location as documented in the sales order.

Table 75: FCC: RDL-3000-RMG TDWR System Locations

STATE	CITY	LONGITUDE	LATITUDE	FREQUENCY	TERRAIN ELEVATION (MSL) [ft]	ANTENNA HEIGHT ABOVE TERRAIN [ft]
AZ	PHOENIX	W 112 09 46	N 33 25 14	5610 MHz	1024	64
CO	DENVER	W 104 31 35	N 39 43 39	5615 MHz	5643	64
FL	FT LAUDERDALE	W 080 20 39	N 26 08 36	5645 MHz	7	113
FL	MIAMI	W 080 29 28	N 25 45 27	5605 MHz	10	113
FL	ORLANDO	W 081 19 33	N 28 20 37	5640 MHz	72	97
FL	TAMPA	W 082 31 04	N 27 51 35	5620 MHz	14	80
FL	WEST PALM BEACH	W 080 16 23	N 26 41 17	5615 MHz	20	113
GA	ATLANTA	W 084 15 44	N 33 38 48	5615 MHz	962	113
IL	MCCOOK	W 087 51 31	N 41 47 50	5615 MHz	646	97
IL	CRESTWOOD	W 087 43 47	N 41 39 05	5645 MHz	663	113
IN	INDIANAPOLIS	W 086 26 08	N 39 38 14	5605 MHz	751	97
KS	WICHITA	W 097 26 13	N 37 30 26	5603 MHz	1270	80
KY	COVINGTON CINCINNATI	W 084 34 48	N 38 53 53	5610 MHz	942	97
KY	LOUISVILLE	W 085 36 38	N 38 02 45	5646 MHz	617	113
LA	NEW ORLEANS	W 090 24 11	N 30 01 18	5645 MHz	2	97
MA	BOSTON	W 070 56 01	N 42 09 30	5610 MHz	151	113
MD	BRANDYWINE	W 076 50 42	N 38 41 43	5635 MHz	233	113
MD	BENFIELD	W 076 37 48	N 39 05 23	5645 MHz	184	113
MD	CLINTON	W 076 57 43	N 38 45 32	5615 MHz	249	97
MI	DETROIT	W 083 30 54	N 42 06 40	5615 MHz	656	113
MN	MINNEAPOLIS	W 092 55 58	N 44 52 17	5610 MHz	1040	80
MO	KANSAS CITY	W 094 44 31	N 39 29 55	5605 MHz	1040	64
MO	SAINT LOUIS	W 090 29 21	N 38 48 20	5610 MHz	551	97
MS	DESOTO COUNTY	W 089 59 33	N 34 53 45	5610 MHz	371	113
NC	CHARLOTTE	W 080 53 06	N 35 21 39	5608 MHz	807	113
NC	RALEIGH DURHAM	W 078 41 50	N 36 00 07	5647 MHz	400	113
NJ	WOODBRIDGE	W 074 16 13	N 40 35 37	5620 MHz	19	113
NJ	PENNSAUKEN	W 075 04 12	N 39 56 57	5610 MHz	39	113
NV	LAS VEGAS	W 115 00 26	N 36 08 37	5645 MHz	1995	64
NY	FLOYD BENNETT FIELD	W 073 52 49	N 40 35 20	5647 MHz	8	97
OH	DAYTON	W 084 07 23	N 40 01 19	5640 MHz	922	97
OH	CLEVELAND	W 082 00 28	N 41 17 23	5645 MHz	817	113
OH	COLUMBUS	W 082 42 55	N 40 00 20	5605 MHz	1037	113
OK	AERO. CTR TDWR #1	W 097 37 31	N 35 24 19	5610 MHz	1285	80
OK	AERO. CTR TDWR	W 097 37 43	N 35 23 34	5620 MHz	1293	97

STATE	CITY	LONGITUDE	LATITUDE	FREQUENCY	TERRAIN ELEVATION (MSL) [ft]	ANTENNA HEIGHT ABOVE TERRAIN [ft]
	#2					
OK	TULSA	W 095 49 34	N 36 04 14	5605 MHz	712	113
OK	OKLAHOMA CITY	W 097 30 36	N 35 16 34	5603 MHz	1195	64
PA	HANOVER	W 080 29 10	N 40 30 05	5615 MHz	1266	113
PR	SAN JUAN	W 066 10 46	N 18 28 26	5610 MHz	59	113
TN	NASHVILLE	W 086 39 42	N 35 58 47	5605 MHz	722	97
TX	HOUSTON INTERCONTL	W 095 34 01	N 30 03 54	5605 MHz	154	97
TX	PEARLAND	W 095 14 30	N 29 30 59	5645 MHz	36	80

Additional information:

http://spectrumbridge.com/udrs/home.aspx

http://www.wispa.org/?page_id=2341

5.1.2 Industry Canada Notices

Deployment in Canada

This Class B Digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment.

The following notices about deployment in Canada are included in training and documentation provided to professional installers and operators of the final product:

1. The final product must be professionally installed.
2. WARNING -- IC RF Exposure Warnings

   To satisfy IC RF exposure requirements for RF transmitting devices, the following distances should be maintained between the antenna of this device and persons during device operation:

Table 76: IC: RDL-3000-RMG Recommended Safe Distances

Frequency (MHz)	Deployment	Separation Distance
4900	PMP	260 cm (103") or more
5300	PMP	20 cm (7.8") or more
5400	PMP	20 cm (7.8") or more
5800	PMP	20 cm (7.8") or more

To ensure compliance, operation at closer than these distances is not recommended. The antenna used for this transmitter must not be collocated in conjunction with any other antenna or transmitter.

The RDL-3000-RMG has been designed to operate with an antenna having a maximum gain of 32 dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

This device has been designed to ensure that radio frequency emissions are maintained within the band of operation under all normal operating conditions listed in this manual.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropic radiated power (EIRP) is not more than that required for successful communication.

Users should also be advised that 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.

Déploiement aux le Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Les avis suivants à propos du déploiement au Canada sont inclus dans la formation et la documentation fournies aux installateurs professionnels et les opérateurs du produit final:

1. Le produit final doit être installé par un professionnel.
2. AVERTISSEMENT - IC avertissements d'exposition RF

   Pour satisfaire les exigences d'IC en ce qui a trait aux expositions aux RF pour RF dispositifs de transmission, les distances suivantes doit être maintenue entre l'antenne de ce dispositif et des personnes pendant le fonctionnement du dispositif:

Table 77: IC: RDL-3000-RMG distances de sécurité recommandées

Frequency (MHz)	Deployment	Separation Distance
4900	PMP	260 cm (103") ou plus
5300	PMP	20 cm (7.8") ou plus
5400	PMP	20 cm (7.8") ou plus
5800	PMP	20 cm (7.8") ou plus

Le RDL-3000-RMG a été conçu pour fonctionner avec une antenne ayant un gain maximal de 32 dBi. Antenne ayant un gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Ce dispositif a été conçu pour veiller à ce que les émissions de radiofréquences sont maintenus dans la bande de fonctionnement dans toutes les conditions normales de fonctionnement figurant dans ce manuel.

Cet appareil est conforme la norme d'Industrie Canada exempts de licence RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas causer d'interférences, et
2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Pour réduire le potentiel d'interférence radio sur d'autres utilisateurs, le type d'antenne et son gain doivent être choisies tel que la Puissance Isotrope Rayonnée Equivalente (PIRE) ne dépasse pas le niveau nécessaire pour une communication efficace.

De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

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