

RDL-3000 Family

Broadband Wireless Systems

RDL-3000-RMC/E/F

Radio Modules

Product Manual

1	Product Overview	6
2	Conditions of Use	7
3	Module Installation and Service	8
4	Final Product Requirements	9
5	Regulatory Notices	41

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Document Control: 70-00184-03-01-RDL-3000-RMC-E-F_Module_Product_Manual- 20130430a.doc	

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TABLE OF CONTENTS

1	Product Overview	6
2	Conditions of Use	7
2.1	General Conditions	7
2.2	Country of Use	7
2.3	Product Labeling.....	7
3	Module Installation and Service	8
3.1	Installation Into a Final Product.....	8
3.2	Module Servicing	8
3.3	Professional Installation.....	8
3.4	Safety Precautions.....	8
3.5	Radio Frequency Safety	8
4	Final Product Requirements	9
4.1	RDL-3000-RMC	9
4.1.1	RDL-3000-RMC Frequency Bands.....	9
4.1.2	RDL-3000-RMC Antenna Use and Transmit Power	9
4.1.3	RDL-3000-RMC Certified Antennas	9
4.1.4	RDL-3000-RMC Power & EIRP (MIMO Operation)	10
	4.9 GHz: FCC 47 CFR Part 90 Subpart Y.....	10
	4.9 GHz: IC RSS-111	13
	5.8 GHz: FCC 47 CFR Part 15 Subpart C, §15.247/IC RSS-210, Issue 8 Annex 8	16
	5.3 GHz: FCC 47 CFR Part 15 Subpart E, §15.407	19
	5.3 GHz: IC RSS-210, Issue 8 Annex 9	22
	5.4 GHz: FCC 47 CFR Part 15 Subpart E, §15.407	25
	5.4 GHz: FCC 47 CFR Part 15 Subpart E, §15.407 / IC RSS-210, Issue 8 Annex 9	28
4.2	RDL-3000-RME	31
4.2.1	RDL-3000-RME Frequency Bands.....	31
4.2.2	RDL-3000-RME Antenna Use and Transmit Power	31
4.2.3	RDL-3000-RME Certified Antennas	31
4.2.4	RDL-3000-RME Power & EIRP (MIMO Operation)	32
4.3	RDL-3000-RMF	40
4.3.1	RDL-3000-RMF Frequency Bands.....	40
4.3.2	RDL-3000-RMF Antenna Use and Transmit Power.....	40
4.3.3	RDL-3000-RMF Certified Antennas.....	40
5	Regulatory Notices	41
5.1	FCC Notices: Deployment in USA.....	41
5.1.1	RDL-3000-RMC	41

FCC Recommendations to UNII band Users42

5.1.2 RDL-3000-RMF44

5.2 Industry Canada Notices: Deployment in Canada46

5.2.1 RDL-3000-RMC46

5.2.2 RDL-3000-RME48

LIST OF TABLES

Table 1: Approved Antennas9

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

Table 3: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for FCC 10

Table 4: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for FCC 10

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

Table 6: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for FCC 11

Table 7: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for FCC 11

Table 8: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for FCC 12

Table 9: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for FCC 12

Table 10: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for FCC 12

Table 11: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC 13

Table 12: 4.9 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC 13

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

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

Table 15: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC 14

Table 16: 4.9 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC 14

Table 17: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC 15

Table 18: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC 15

Table 19: 4.9 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC 15

Table 20: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for FCC/IC 16

Table 21: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for FCC/IC 16

Table 22: 5.8 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for FCC/IC 16

Table 23: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for FCC/IC .. 17

Table 24: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for FCC/IC .. 17

Table 25: 5.8 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for FCC/IC .. 17

Table 26: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for FCC/IC .. 18

Table 27: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for FCC/IC .. 18

Table 28: 5.8 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for FCC/IC .. 18

Table 29: 5.3 GHz: RF Power: 5 MHz channel & 10 dBi antenna for FCC 19

Table 30: 5.3 GHz: RF Power: 5 MHz channel & 19 dBi antenna for FCC 19

Table 31: 5.3 GHz: RF Power: 5 MHz channel & 32 dBi antenna for FCC 19

Table 32: 5.3 GHz: RF Power: 10 MHz channel & 10 dBi antenna for FCC 20

Table 33: 5.3 GHz: RF Power: 10 MHz channel & 19 dBi antenna for FCC 20

Table 34: 5.3 GHz: RF Power: 10 MHz channel & 32 dBi antenna for FCC 20

Table 35: 5.3 GHz: RF Power: 20 MHz channel & 10 dBi antenna for FCC 21

Table 36: 5.3 GHz: RF Power: 20 MHz channel & 19 dBi antenna for FCC 21

Table 37: 5.3 GHz: RF Power: 20 MHz channel & 32 dBi antenna for FCC 21

Table 38: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC 22

Table 39: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC 22

Table 40: 5.3 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for IC 22

Table 41: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for IC 23

Table 42: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC	23
Table 43: 5.3 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC	23
Table 44: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC	24
Table 45: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC	24
Table 46: 5.3 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC	24
Table 47: 5.4 GHz: RF Power: 5 MHz channel & 10 dBi antenna for FCC	25
Table 48: 5.4 GHz: RF Power: 5 MHz channel & 19 dBi antenna for FCC	25
Table 49: 5.4 GHz: RF Power: 5 MHz channel & 32 dBi antenna for FCC	25
Table 50: 5.4 GHz: RF Power: 10 MHz channel & 10 dBi antenna for FCC	26
Table 51: 5.4 GHz: RF Power: 10 MHz channel & 19 dBi antenna for FCC	26
Table 52: 5.4 GHz: RF Power: 10 MHz channel & 32 dBi antenna for FCC	26
Table 53: 5.4 GHz: RF Power: 20 MHz channel & 10 dBi antenna for FCC	27
Table 54: 5.4 GHz: RF Power: 20 MHz channel & 19 dBi antenna for FCC	27
Table 55: 5.4 GHz: RF Power: 20 MHz channel & 32 dBi antenna for FCC	27
Table 56: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 10 dBi antenna for IC	28
Table 57: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 19 dBi antenna for IC	28
Table 58: 5.4 GHz: RF Power & EIRP: 5 MHz channel & 32 dBi antenna for IC	28
Table 59: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 10 dBi antenna for IC	29
Table 60: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 19 dBi antenna for IC	29
Table 61: 5.4 GHz: RF Power & EIRP: 10 MHz channel & 32 dBi antenna for IC	29
Table 62: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 10 dBi antenna for IC	30
Table 63: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 19 dBi antenna for IC	30
Table 64: 5.4 GHz: RF Power & EIRP: 20 MHz channel & 32 dBi antenna for IC	30
Table 65: RDL-3000-RME: Approved Antennas	31
Table 66: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 14.5 dBi antenna for IC	32
Table 67: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 15 dBi antenna for IC	33
Table 68: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 16 dBi antenna for IC	34
Table 69: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 17 dBi antenna for IC	35
Table 70: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 14.5 dBi antenna for IC	36
Table 71: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 15 dBi antenna for IC	37
Table 72: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 16 dBi antenna for IC	38
Table 73: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 17 dBi antenna for IC	39
Table 74: RDL-3000-RMF: Transmit Power	40
Table 75: RDL-3000-RMF: Approved Antennas	40
Table 76: FCC: RDL-3000-RMC Recommended Safe Distances	41
Table 77: FCC: RDL-3000-RMC TDWR System Locations	42
Table 78: FCC: RDL-3000-RME/F Recommended Safe Distances	44
Table 79: IC: RDL-3000-RMC Recommended Safe Distances	46
Table 80: IC: RDL-3000-RMC distances de sécurité recommandées	47
Table 81: IC: RDL-3000-RME/F Recommended Safe Distances	48
Table 82: IC: RDL-3000-RME/F distances de sécurité recommandées	48

1 Product Overview

The RDL-3000-RMC, RDL-3000-RME and RDL-3000-RMF (Fixed TVBD) radio modules are each comprised of a proprietary Media Access Control (MAC) protocol engine and Time Division Duplexing (TDD)/ Orthogonal Frequency Division Duplexing (OFDM) digital radio.

The RDL-3000 modules are not designed for stand-alone operation. The modules are 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.

RDL-3000-RMC:	4900 to 5975 MHz
RDL-3000-RME:	2305-2320 MHz and 2345-2360 MHz
RDL-3000-RMF:	470 - 698 MHz

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

2 Conditions of Use

2.1 General Conditions

The RDL-3000-RMC/E/F modules are not provided for sale to the general public. These modules contain 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 these modules 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 any of these the modules.

RDL-3000-RMC

The RDL-3000-RMC module is certified with limited modular approval for use as an 'intentional radiator' in Canada as IC: 4310A-RDL3000RMC and in the United States as device FCC ID: QC8-RDL3000RMC.

RDL-3000-RME

The RDL-3000-RME module is certified with limited modular approval for use as an 'intentional radiator' in Canada as device:

IC: 4310A-RDL3000RME

RDL-3000-RMF

The RDL-3000-RMF module is certified with limited modular approval for use as an 'intentional radiator' in the United States as device:

FCC ID: QC8-RDL3000RMF

2.3 Product Labeling

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 RDL-3000 module. Do not to remove any labels from the module or the final product.

RDL-3000-RMC

Contains:	IC: 4310A-RDL3000RMC
Contains	FCC ID:QC8-RDL3000RMC

RDL-3000-RME

Contains	IC: 4310A-RDL3000RME
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RDL-3000-RMF

Contains	FCC ID:QC8-RDL3000RMF
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3 Module Installation and Service

3.1 Installation Into a Final Product

The RDL-3000-RMC/E/F modules 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.

3.2 Module Servicing

The RDL-3000-RMC/E/F modules are 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 RDL-3000-RMC/E/F modules are 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 Redline RDL-3000-RMC/E/F 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 RDL-3000-RMC/E/F modules 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 that 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, Radio frequency radiation exposure evaluation for fixed devices & 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 regulator statements included in this document.

4 Final Product Requirements

The following requirements apply to all final products incorporating an RDL-3000-RMC, RDL-3000-RME, or RDL-3000-RMF module.

4.1 RDL-3000-RMC

4.1.1 RDL-3000-RMC 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, or 5725-5850 MHz band. The professional installer and operator can not modify or otherwise circumvent these operational restrictions.

4.1.2 RDL-3000-RMC Antenna Use and Transmit Power

The RDL-3000-RMC module supports operation with 2x2 MIMO antenna systems with two transmit chains and two receive chains. The RDL-3000-RMC module must be used only with certified antennas and using the channel size and output power level specified by the FCC/IC regulations.

4.1.3 RDL-3000-RMC 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	30-00328-00	19	4900-5875 MHz
L-Com	HG5158DP-10U	10	5100-5800 MHz

4.1.4 RDL-3000-RMC 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

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

Table 20: 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 21: 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 22: 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 23: 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 24: 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 25: 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 26: 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 27: 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 28: 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 29: 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 30: 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 31: 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 32: 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 33: 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 34: 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 35: 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 36: 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 37: 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

5.3 GHz: IC RSS-210, Issue 8 Annex 9

Table 38: 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 39: 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 40: 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 41: 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 42: 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 43: 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 44: 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 45: 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 46: 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 47: 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 48: 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 49: 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 50: 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 51: 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 52: 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 53: 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 54: 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 55: 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 56: 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 57: 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 58: 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 59: 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 60: 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 61: 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 62: 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 63: 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 64: 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

4.2 RDL-3000-RME

4.2.1 RDL-3000-RME Frequency Bands

Operation of the final product (containing the RDL-3000-RME module) requires a software 'key' that is available exclusively from Redline. This key restricts device operation to the IC 2305-2320 MHz and 2345-2360 MHz bands and is subject to licensing. The professional installer and operator can not modify or otherwise circumvent these operational restrictions.

4.2.2 RDL-3000-RME Antenna Use and Transmit Power

The RDL-3000-RME module supports operation with 2x2 MIMO antenna systems with two transmit chains and two receive chains. The RDL-3000-RME module must be used only with certified antennas and using the channel size and output power level specified by the IC regulations.

4.2.3 RDL-3000-RME Certified Antennas

The RDL-3000-RME module has been designed to operate with the antennas listed in the following table.

Table 65: RDL-3000-RME: Approved Antennas

Manufacturer	Part #	Gain (dBi)	Beamwidth (degrees)	Frequency Range (MHz)
Redline	30-00328-30	14.5	35	2300 - 2700
Redline	AFS-DBG-02120-01	15	120	2300-2700
Redline	AFS-DBG-0290-01	16	90	2300-2700
Redline	AFS-DBG-0260-01	17	60	2300-2700

4.2.4 RDL-3000-RME Power & EIRP (MIMO Operation)

Table 66: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 14.5 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2348	13.57	13.75	16.67	14.50	31.17	63.00	31.83
	2352.5	23.62	23.95	26.80	14.50	41.30	63.00	21.70
	2357.5	28.93	29.43	32.20	14.50	46.70	63.00	16.30
	2308	29.23	29.41	32.33	14.50	46.83	63.00	16.17
	2312.5	23.37	24.19	26.81	14.50	41.31	63.00	21.69
	2317	16.88	14.73	18.95	14.50	33.45	63.00	29.55
QPSK	2348	13.29	13.62	16.47	14.50	30.97	63.00	32.03
	2352.5	23.47	23.82	26.66	14.50	41.16	63.00	21.84
	2357.5	28.87	29.52	32.22	14.50	46.72	63.00	16.28
	2308	29.29	29.47	32.39	14.50	46.89	63.00	16.11
	2312.5	23.18	24.02	26.63	14.50	41.13	63.00	21.87
	2317	17.11	14.89	19.15	14.50	33.65	63.00	29.35
16-QAM	2348	13.45	13.59	16.53	14.50	31.03	63.00	31.97
	2352.5	23.59	23.87	26.74	14.50	41.24	63.00	21.76
	2357.5	28.91	29.29	32.11	14.50	46.61	63.00	16.39
	2308	29.12	29.52	32.33	14.50	46.83	63.00	16.17
	2312.5	23.52	24.59	27.10	14.50	41.60	63.00	21.40
	2317	16.92	14.48	18.88	14.50	33.38	63.00	29.62
64-QAM	2348	13.45	13.78	16.63	14.50	31.13	63.00	31.87
	2352.5	23.65	23.27	26.47	14.50	40.97	63.00	22.03
	2357.5	28.79	29.39	32.11	14.50	46.61	63.00	16.39
	2308	29.38	29.28	32.34	14.50	46.84	63.00	16.16
	2312.5	23.21	24.19	26.74	14.50	41.24	63.00	21.76
	2317	17.19	15.28	19.35	14.50	33.85	63.00	29.15

Table 67: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 15 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2348	13.57	13.75	16.67	15.00	31.67	63.00	31.33
	2352.5	23.62	23.95	26.80	15.00	41.80	63.00	21.20
	2357.5	28.93	29.43	32.20	15.00	47.20	63.00	15.80
	2308	29.23	29.41	32.33	15.00	47.33	63.00	15.67
	2312.5	23.37	24.19	26.81	15.00	41.81	63.00	21.19
	2317	16.88	14.73	18.95	15.00	33.95	63.00	29.05
QPSK	2348	13.29	13.62	16.47	15.00	31.47	63.00	31.53
	2352.5	23.47	23.82	26.66	15.00	41.66	63.00	21.34
	2357.5	28.87	29.52	32.22	15.00	47.22	63.00	15.78
	2308	29.29	29.47	32.39	15.00	47.39	63.00	15.61
	2312.5	23.18	24.02	26.63	15.00	41.63	63.00	21.37
	2317	17.11	14.89	19.15	15.00	34.15	63.00	28.85
16-QAM	2348	13.45	13.59	16.53	15.00	31.53	63.00	31.47
	2352.5	23.59	23.87	26.74	15.00	41.74	63.00	21.26
	2357.5	28.91	29.29	32.11	15.00	47.11	63.00	15.89
	2308	29.12	29.52	32.33	15.00	47.33	63.00	15.67
	2312.5	23.52	24.59	27.10	15.00	42.10	63.00	20.90
	2317	16.92	14.48	18.88	15.00	33.88	63.00	29.12
64-QAM	2348	13.45	13.78	16.63	15.00	31.63	63.00	31.37
	2352.5	23.65	23.27	26.47	15.00	41.47	63.00	21.53
	2357.5	28.79	29.39	32.11	15.00	47.11	63.00	15.89
	2308	29.38	29.28	32.34	15.00	47.34	63.00	15.66
	2312.5	23.21	24.19	26.74	15.00	41.74	63.00	21.26
	2317	17.19	15.28	19.35	15.00	34.35	63.00	28.65

Table 68: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 16 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2348	13.57	13.75	16.67	16.00	32.67	63.00	30.33
	2352.5	23.62	23.95	26.80	16.00	42.80	63.00	20.20
	2357.5	28.93	29.43	32.20	16.00	48.20	63.00	14.80
	2308	29.23	29.41	32.33	16.00	48.33	63.00	14.67
	2312.5	23.37	24.19	26.81	16.00	42.81	63.00	20.19
	2317	16.88	14.73	18.95	16.00	34.95	63.00	28.05
QPSK	2348	13.29	13.62	16.47	16.00	32.47	63.00	30.53
	2352.5	23.47	23.82	26.66	16.00	42.66	63.00	20.34
	2357.5	28.87	29.52	32.22	16.00	48.22	63.00	14.78
	2308	29.29	29.47	32.39	16.00	48.39	63.00	14.61
	2312.5	23.18	24.02	26.63	16.00	42.63	63.00	20.37
	2317	17.11	14.89	19.15	16.00	35.15	63.00	27.85
16-QAM	2348	13.45	13.59	16.53	16.00	32.53	63.00	30.47
	2352.5	23.59	23.87	26.74	16.00	42.74	63.00	20.26
	2357.5	28.91	29.29	32.11	16.00	48.11	63.00	14.89
	2308	29.12	29.52	32.33	16.00	48.33	63.00	14.67
	2312.5	23.52	24.59	27.10	16.00	43.10	63.00	19.90
	2317	16.92	14.48	18.88	16.00	34.88	63.00	28.12
64-QAM	2348	13.45	13.78	16.63	16.00	32.63	63.00	30.37
	2352.5	23.65	23.27	26.47	16.00	42.47	63.00	20.53
	2357.5	28.79	29.39	32.11	16.00	48.11	63.00	14.89
	2308	29.38	29.28	32.34	16.00	48.34	63.00	14.66
	2312.5	23.21	24.19	26.74	16.00	42.74	63.00	20.26
	2317	17.19	15.28	19.35	16.00	35.35	63.00	27.65

Table 69: 2.5 GHz: RF Power & EIRP: 5 MHz channel for 17 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2348	13.57	13.75	16.67	17.00	33.67	63.00	29.33
	2352.5	23.62	23.95	26.80	17.00	43.80	63.00	19.20
	2357.5	28.93	29.43	32.20	17.00	49.20	63.00	13.80
	2308	29.23	29.41	32.33	17.00	49.33	63.00	13.67
	2312.5	23.37	24.19	26.81	17.00	43.81	63.00	19.19
	2317	16.88	14.73	18.95	17.00	35.95	63.00	27.05
QPSK	2348	13.29	13.62	16.47	17.00	33.47	63.00	29.53
	2352.5	23.47	23.82	26.66	17.00	43.66	63.00	19.34
	2357.5	28.87	29.52	32.22	17.00	49.22	63.00	13.78
	2308	29.29	29.47	32.39	17.00	49.39	63.00	13.61
	2312.5	23.18	24.02	26.63	17.00	43.63	63.00	19.37
	2317	17.11	14.89	19.15	17.00	36.15	63.00	26.85
16-QAM	2348	13.45	13.59	16.53	17.00	33.53	63.00	29.47
	2352.5	23.59	23.87	26.74	17.00	43.74	63.00	19.26
	2357.5	28.91	29.29	32.11	17.00	49.11	63.00	13.89
	2308	29.12	29.52	32.33	17.00	49.33	63.00	13.67
	2312.5	23.52	24.59	27.10	17.00	44.10	63.00	18.90
	2317	16.92	14.48	18.88	17.00	35.88	63.00	27.12
64-QAM	2348	13.45	13.78	16.63	17.00	33.63	63.00	29.37
	2352.5	23.65	23.27	26.47	17.00	43.47	63.00	19.53
	2357.5	28.79	29.39	32.11	17.00	49.11	63.00	13.89
	2308	29.38	29.28	32.34	17.00	49.34	63.00	13.66
	2312.5	23.21	24.19	26.74	17.00	43.74	63.00	19.26
	2317	17.19	15.28	19.35	17.00	36.35	63.00	26.65

Table 70: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 14.5 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2350.5	12.3	12.95	15.65	14.50	30.15	63.00	32.85
	2355	19.3	19.89	22.62	14.50	37.12	63.00	25.88
	2310	19.8	18.61	22.27	14.50	36.77	63.00	26.23
	2314.5	13.3	12.75	16.04	14.50	30.54	63.00	32.46
QPSK	2350.5	12.3	12.78	15.55	14.50	30.05	63.00	32.95
	2355	19.2	19.92	22.58	14.50	37.08	63.00	25.92
	2310	19.9	18.59	22.32	14.50	36.82	63.00	26.18
	2314.5	13.3	12.69	16.01	14.50	30.51	63.00	32.49
16-QAM	2350.5	12.3	12.91	15.62	14.50	30.12	63.00	32.88
	2355	19.3	19.97	22.64	14.50	37.14	63.00	25.86
	2310	19.8	18.59	22.24	14.50	36.74	63.00	26.26
	2314.5	13.5	12.82	16.16	14.50	30.66	63.00	32.34
64-QAM	2350.5	12.3	12.87	15.60	14.50	30.10	63.00	32.90
	2355	19.4	19.92	22.68	14.50	37.18	63.00	25.82
	2310	19.9	18.59	22.29	14.50	36.79	63.00	26.21
	2314.5	13.4	12.82	16.10	14.50	30.60	63.00	32.40

Table 71: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 15 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2350.5	12.3	12.95	15.65	15.00	30.65	63.00	32.35
	2355	19.3	19.89	22.62	15.00	37.62	63.00	25.38
	2310	19.8	18.61	22.27	15.00	37.27	63.00	25.73
	2314.5	13.3	12.75	16.04	15.00	31.04	63.00	31.96
QPSK	2350.5	12.3	12.78	15.55	15.00	30.55	63.00	32.45
	2355	19.2	19.92	22.58	15.00	37.58	63.00	25.42
	2310	19.9	18.59	22.32	15.00	37.32	63.00	25.68
	2314.5	13.3	12.69	16.01	15.00	31.01	63.00	31.99
16-QAM	2350.5	12.3	12.91	15.62	15.00	30.62	63.00	32.38
	2355	19.3	19.97	22.64	15.00	37.64	63.00	25.36
	2310	19.8	18.59	22.24	15.00	37.24	63.00	25.76
	2314.5	13.5	12.82	16.16	15.00	31.16	63.00	31.84
64-QAM	2350.5	12.3	12.87	15.60	15.00	30.60	63.00	32.40
	2355	19.4	19.92	22.68	15.00	37.68	63.00	25.32
	2310	19.9	18.59	22.29	15.00	37.29	63.00	25.71
	2314.5	13.4	12.82	16.10	15.00	31.10	63.00	31.90

Table 72: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 16 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2350.5	12.3	12.95	15.65	16.00	31.65	63.00	31.35
	2355	19.3	19.89	22.62	16.00	38.62	63.00	24.38
	2310	19.8	18.61	22.27	16.00	38.27	63.00	24.73
	2314.5	13.3	12.75	16.04	16.00	32.04	63.00	30.96
QPSK	2350.5	12.3	12.78	15.55	16.00	31.55	63.00	31.45
	2355	19.2	19.92	22.58	16.00	38.58	63.00	24.42
	2310	19.9	18.59	22.32	16.00	38.32	63.00	24.68
	2314.5	13.3	12.69	16.01	16.00	32.01	63.00	30.99
16-QAM	2350.5	12.3	12.91	15.62	16.00	31.62	63.00	31.38
	2355	19.3	19.97	22.64	16.00	38.64	63.00	24.36
	2310	19.8	18.59	22.24	16.00	38.24	63.00	24.76
	2314.5	13.5	12.82	16.16	16.00	32.16	63.00	30.84
64-QAM	2350.5	12.3	12.87	15.60	16.00	31.60	63.00	31.40
	2355	19.4	19.92	22.68	16.00	38.68	63.00	24.32
	2310	19.9	18.59	22.29	16.00	38.29	63.00	24.71
	2314.5	13.4	12.82	16.10	16.00	32.10	63.00	30.90

Table 73: 2.5 GHz: RF Power & EIRP: 10 MHz channel for 17 dBi antenna for IC

Modulation	Frequency (MHz)	Power at RF-1 (dBm)	Power at RF-2 (dBm)	Combined output power (dBm)	Antenna gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	EIRP margin (dB)
BPSK	2350.5	12.3	12.95	15.65	17.00	32.65	63.00	30.35
	2355	19.3	19.89	22.62	17.00	39.62	63.00	23.38
	2310	19.8	18.61	22.27	17.00	39.27	63.00	23.73
	2314.5	13.3	12.75	16.04	17.00	33.04	63.00	29.96
QPSK	2350.5	12.3	12.78	15.55	17.00	32.55	63.00	30.45
	2355	19.2	19.92	22.58	17.00	39.58	63.00	23.42
	2310	19.9	18.59	22.32	17.00	39.32	63.00	23.68
	2314.5	13.3	12.69	16.01	17.00	33.01	63.00	29.99
16-QAM	2350.5	12.3	12.91	15.62	17.00	32.62	63.00	30.38
	2355	19.3	19.97	22.64	17.00	39.64	63.00	23.36
	2310	19.8	18.59	22.24	17.00	39.24	63.00	23.76
	2314.5	13.5	12.82	16.16	17.00	33.16	63.00	29.84
64-QAM	2350.5	12.3	12.87	15.60	17.00	32.60	63.00	30.40
	2355	19.4	19.92	22.68	17.00	39.68	63.00	23.32
	2310	19.9	18.59	22.29	17.00	39.29	63.00	23.71
	2314.5	13.4	12.82	16.10	17.00	33.10	63.00	29.90

4.3 RDL-3000-RMF

4.3.1 RDL-3000-RMF Frequency Bands

Operation of the final product (containing the RDL-3000-RMF module) requires a software 'key' that is available exclusively from Redline. This key restricts device operation to the FCC 473 - 695 MHz band on TV channels 14 - 35 and 39 - 51. The professional installer and operator can not modify or otherwise circumvent these operational restrictions.

To operate in the TV Whitespaces frequency range, each RDL-3000-RMF must contact and register with the WSDB database server (server URL is programmed into the RDL-3000-RMF). The RDL-3000 may only transmit on channels indicated as 'available' by the WSDB database. Channel assignments are temporary and the RDL-3000-RMF must periodically contact the WSDB to refresh the channel list. The RDL-3000-RMF vacates a channel in-use immediately when a WSDB database status update indicates the channel is no longer available or the expiry time for an obtained list has elapsed.

The RDL-3000-RMF operating as a PMP Sector Controller/PTP Master (PMP-SC) is not allowed to transmit on any channel before registering with the WSDB database and obtaining a list of available channels for its location. The RDL-3000-RMF operating as a PMP Subscriber/PTP Slave (PMP-SS) is allowed to transmit on the channel currently being used by the PMP-SC initially only for the purpose of registering with the WSDB database and obtaining a list of available channels for its location. If the channel in-use is not available, the PMP-SS notifies the PMP-SC and stops transmitting. The PMP-SS may register and obtain the current channel list once per hour.

4.3.2 RDL-3000-RMF Antenna Use and Transmit Power

The RDL-3000-RMF module supports operation with 2x2 MIMO antenna systems with two transmit chains and two receive chains. The RDL-3000-RMF module must be used only with certified antennas and using the channel size and output power level specified by the FCC regulations.

Table 74: RDL-3000-RMF: Transmit Power

Channel #	Tx Power (dBm)
14-34 40-51	+18
35, 39	+16

4.3.3 RDL-3000-RMF 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 75: RDL-3000-RMF: Approved Antennas

Supplier	Part #	Gain (dBi)	Frequency Range (MHz)	Application	Size	Beamwidth / Polarity
Redline	AFS-VH-60060-01	13	470-698	Sector	122 cm (48 in)	60 deg vpol & hpol
Redline	AFS-SB-60055-01	11	470-698	Log-P Directional	122 cm (48 in)	55 deg vpol & hpol

5 Regulatory Notices

5.1 FCC Notices: Deployment in USA

5.1.1 RDL-3000-RMC

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. 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 76: FCC: RDL-3000-RMC 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.

3. 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.

4. 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.

5. 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 TDWR 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 77: FCC: RDL-3000-RMC 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

STATE	CITY	LONGITUDE	LATITUDE	FREQUENCY	TERRAIN ELEVATION (MSL) [ft]	ANTENNA HEIGHT ABOVE TERRAIN [ft]
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	WOODBIDGE	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 #2	W 097 37 43	N 35 23 34	5620 MHz	1293	97
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

STATE	CITY	LONGITUDE	LATITUDE	FREQUENCY	TERRAIN ELEVATION (MSL) [ft]	ANTENNA HEIGHT ABOVE TERRAIN [ft]
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 RDL-3000-RMF

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. 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 78: FCC: RDL-3000-RME/F Recommended Safe Distances

Frequency (MHz)	Deployment	Separation Distance
470 - 698	PMP	40 cm (15 3/4") 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.

3. FCC Information to Users @ FCC 15.706:

This equipment has been tested and found to comply with the rules for TV bands devices, pursuant to part 15 of the FCC rules. These rules are designed to provide reasonable protection against harmful interference. 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. 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:

- (1) Re-orient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the manufacturer, dealer or an experienced radio/TV technician for help.

4. FCC Information to Users @ FCC 15.19:

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.
5. 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.

5.2 Industry Canada Notices: Deployment in Canada

5.2.1 RDL-3000-RMC

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 79: IC: RDL-3000-RMC 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-RMC 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 80: IC: RDL-3000-RMC 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-RMC 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.

5.2.2 RDL-3000-RME

Deployment in Canada

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

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

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 81: IC: RDL-3000-RME/F Recommended Safe Distances

Frequency (MHz)	Deployment	Separation Distance
2305-2320 2345-2360	PMP	85 cm (33.5") 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-RME has been designed to operate with an antenna having a maximum gain of 17 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.

IC regulations governing operation in the 2305-2320 MHz and 2345-2360 MHz bands are subject to licensing, pursuant to subsection 4(1) of the Radiocommunication Act.

This equipment complies to RSS-195 in the frequency band 2305-2320 MHz and 2345-2360 MHz bands.

Déploiement aux le Canada

Cet appareil Digitale de Classe B rencontre toutes les normes du Canadian Règlement Brouilleur Équipement.

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:

3. Le produit final doit être installé par un professionnel.
4. 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 82: IC: RDL-3000-RME/F distances de sécurité recommandées

Fréquence (MHz)	Déploiement	Distance de Séparation
2305-2320 2345-2360	PMP	85 cm (33.5") ou plus

Pour assurer la conformité, l'opération à une distance moindre que celles-ci n'est pas recommandé. L'antenne utilisée pour ce transmetteur ne doit pas être co-localisée avec une autre antenne ou transmetteur.

Le RDL-3000-RME a été conçu pour fonctionner avec une antenne ayant un gain maximal de 17 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.

Règlements qui régissent le fonctionnement IC dans la bandes 2305-2320 MHz et 2345-2360 MHz sont soumises à autorisation en vertu du paragraphe 4 (1) de la Loi sur la radiocommunication.

Cet équipement est conforme à RSS-195 dans la bandes de fréquences 2305-2320 MHz et 2345-2360 MHz.

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