

# **RDL-3000 Family**

*Broadband Wireless Radio Platforms*

# **RDL-3000-RMA Radio Module**

## **Product Manual**

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| <b>Document Control:</b><br>70-00184-01-01-RDL-3000-RMA_Product_Manual-20120717c.doc  |

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# 1 Product Overview

The RDL-3000 Radio Module (RDL-3000-RMA) is 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-RMA is not designed for stand-alone operation. The module is sold as one component of a packaged system which includes a suitable housing for the module connectors for required external components including a power supply and antenna system. This is afterwards referred to as the 'final product'. The final product may be designed and manufactured by Redline or a licensed third party.

The module is available in the 4900 to 5800 MHz frequency band. Frequency settings within this band are software keyed to be compliant with specific regulatory agency requirements in the region of deployment.

**Important:** Read this entire document prior to installing or operating the RDL-3000-RMA.

## 2 Conditions of Use

### 2.1 General Conditions

The RDL-3000-RMA is not provided for sale to the general public.

The RDL-3000-RMA contains a proprietary radio interface and can not be directly connected to any standard telecommunications or computer devices.

This manual is provided as supplement to technical and operational documentation and training provided by Redline and its agents. Any operation or use of the RDL-3000-M 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

The RDL-3000-RMA is certified with limiter modular approval for use as an 'intentional radiator' in Canada as IC: 4310A-RDL3000RMA and in the United States as device FCC ID: QC8-RDL3000RMA.

Refer to the regulatory notices in this document before installing or operating the RDL-3000-RMA.

### 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-RMA module:

|           |                       |
|-----------|-----------------------|
| Contains: | IC: 4310A-RDL3000RMA  |
| Contains  | FCC ID:QC8-RDL3000RMA |

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

## 3 Module Installation and Service

### 3.1 Installation Into a Final Product

The RDL-3000-RMA must only be installed 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-RMA is not intended to be field serviceable, and contains no field serviceable or field replaceable parts. The module must be serviced only at an approved manufacturing facility or service depot.



**Warning:** The RDL-3000-RMA is susceptible to damage from electrostatic charge. Electrostatic Discharge (ESD) must be avoided to prevent damaging or destroying the module. The module must always be stored 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-RMA 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 must be done 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](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 the RDL-3000-RMA.

### 4.1 Frequency Bands

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

### 4.2 Antenna Use and Transmit Power

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

### 4.3 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.

| <b>Table 1: Approved Antennas</b> |               |             |                        |
|-----------------------------------|---------------|-------------|------------------------|
| <b>Manufacturer</b>               | <b>Part #</b> | <b>Gain</b> | <b>Frequency Range</b> |
| Redline                           | 30-00328-00   | 19 dBi      | 4900-5875 MHz          |
| L-Com*                            | HG5158DP-10U  | 10 dBi      | 5100-5800 MHz          |

\* Approved for 5.4 and 5.8 bands only.



## 4.4 Power and EIRP Results (MIMO Operation)

### Operation in the 5725-5850 MHz Band: FCC & IC

For operation in the 5725-5850 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

| Table 2: Power & EIRP Results: 5725-5850 MHz FCC & IC - 5 MHz Channel |             |                           |                           |                   |                         |        |                 |            |                  |             |
|---|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
| BPSK  | 5727.50     | 13.79                     | 13.53                     | 16.67             | 17.00                   | 0.33   | 19.00           | 35.67      | 36.00            | 0.33        |
|   | 5790.00     | 13.89                     | 13.41                     | 16.67             | 17.00                   | 0.33   | 19.00           | 35.67      | 36.00            | 0.33        |
|   | 5847.50     | 13.97                     | 13.45                     | 16.73             | 17.00                   | 0.27   | 19.00           | 35.73      | 36.00            | 0.27        |
| QPSK  | 5727.50     | 13.81                     | 13.50                     | 16.67             | 17.00                   | 0.33   | 19.00           | 35.67      | 36.00            | 0.33        |
|   | 5790.00     | 13.93                     | 13.35                     | 16.66             | 17.00                   | 0.34   | 19.00           | 35.66      | 36.00            | 0.34        |
|   | 5847.50     | 13.96                     | 13.48                     | 16.74             | 17.00                   | 0.26   | 19.00           | 35.74      | 36.00            | 0.26        |
| 16QAM   | 5727.50     | 13.84                     | 13.49                     | 16.68             | 17.00                   | 0.32   | 19.00           | 35.68      | 36.00            | 0.32        |
|   | 5790.00     | 13.84                     | 13.36                     | 16.62             | 17.00                   | 0.38   | 19.00           | 35.62      | 36.00            | 0.38        |
|   | 5847.50     | 13.95                     | 13.48                     | 16.73             | 17.00                   | 0.27   | 19.00           | 35.73      | 36.00            | 0.27        |
| 64QAM   | 5727.50     | 13.94                     | 13.65                     | 16.81             | 17.00                   | 0.19   | 19.00           | 35.81      | 36.00            | 0.19        |
|   | 5790.00     | 13.91                     | 13.40                     | 16.67             | 17.00                   | 0.33   | 19.00           | 35.67      | 36.00            | 0.33        |
|   | 5847.50     | 14.21                     | 13.47                     | 16.87             | 17.00                   | 0.13   | 19.00           | 35.87      | 36.00            | 0.13        |
| BPSK  | 5727.50     | 22.74                     | 22.49                     | 25.63             | 26.00                   | 0.37   | 10.00           | 35.63      | 36.00            | 0.37        |
|   | 5790.00     | 22.68                     | 22.87                     | 25.79             | 26.00                   | 0.21   | 10.00           | 35.79      | 36.00            | 0.21        |
|   | 5847.50     | 22.93                     | 22.88                     | 25.92             | 26.00                   | 0.08   | 10.00           | 35.92      | 36.00            | 0.08        |
| QPSK  | 5727.50     | 22.68                     | 22.31                     | 25.51             | 26.00                   | 0.49   | 10.00           | 35.51      | 36.00            | 0.49        |
|   | 5790.00     | 22.37                     | 22.91                     | 25.66             | 26.00                   | 0.34   | 10.00           | 35.66      | 36.00            | 0.34        |
|   | 5847.50     | 22.99                     | 22.83                     | 25.92             | 26.00                   | 0.08   | 10.00           | 35.92      | 36.00            | 0.08        |
| 16QAM   | 5727.50     | 22.75                     | 22.29                     | 25.54             | 26.00                   | 0.46   | 10.00           | 35.54      | 36.00            | 0.46        |
|   | 5790.00     | 22.38                     | 23.12                     | 25.78             | 26.00                   | 0.22   | 10.00           | 35.78      | 36.00            | 0.22        |
|   | 5847.50     | 22.91                     | 22.79                     | 25.86             | 26.00                   | 0.14   | 10.00           | 35.86      | 36.00            | 0.14        |
| 64QAM   | 5727.50     | 22.60                     | 22.31                     | 25.47             | 26.00                   | 0.53   | 10.00           | 35.47      | 36.00            | 0.53        |
|   | 5790.00     | 22.68                     | 22.73                     | 25.72             | 26.00                   | 0.28   | 10.00           | 35.72      | 36.00            | 0.28        |
|   | 5847.50     | 22.94                     | 22.89                     | 25.93             | 26.00                   | 0.07   | 10.00           | 35.93      | 36.00            | 0.07        |

| Table 3: Power & EIRP Results: 5725-5850 MHz FCC & IC - 10 MHz Channel |             |                           |                           |                   |                         |        |                 |            |                  |             |
|--|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| Mod.   | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
| BPSK   | 5730.00     | 13.53                     | 13.38                     | 16.47             | 17.00                   | 0.53   | 19.00           | 35.47      | 36.00            | 0.53        |
|  | 5790.00     | 13.81                     | 13.61                     | 16.72             | 17.00                   | 0.28   | 19.00           | 35.72      | 36.00            | 0.28        |
|  | 5845.00     | 13.48                     | 13.65                     | 16.58             | 17.00                   | 0.42   | 19.00           | 35.58      | 36.00            | 0.42        |
| QPSK   | 5730.00     | 13.73                     | 13.51                     | 16.63             | 17.00                   | 0.37   | 19.00           | 35.63      | 36.00            | 0.37        |
|  | 5790.00     | 13.37                     | 13.55                     | 16.47             | 17.00                   | 0.53   | 19.00           | 35.47      | 36.00            | 0.53        |
|  | 5845.00     | 13.33                     | 13.57                     | 16.46             | 17.00                   | 0.54   | 19.00           | 35.46      | 36.00            | 0.54        |
| 16QAM  | 5730.00     | 13.96                     | 13.44                     | 16.72             | 17.00                   | 0.28   | 19.00           | 35.72      | 36.00            | 0.28        |
|  | 5790.00     | 13.30                     | 13.59                     | 16.46             | 17.00                   | 0.54   | 19.00           | 35.46      | 36.00            | 0.54        |
|  | 5845.00     | 13.39                     | 13.56                     | 16.49             | 17.00                   | 0.51   | 19.00           | 35.49      | 36.00            | 0.51        |
| 64QAM  | 5730.00     | 14.26                     | 13.21                     | 16.78             | 17.00                   | 0.22   | 19.00           | 35.78      | 36.00            | 0.22        |
|  | 5790.00     | 13.12                     | 13.68                     | 16.42             | 17.00                   | 0.58   | 19.00           | 35.42      | 36.00            | 0.58        |
|  | 5845.00     | 13.33                     | 13.59                     | 16.47             | 17.00                   | 0.53   | 19.00           | 35.47      | 36.00            | 0.53        |
| BPSK   | 5730.00     | 22.26                     | 23.04                     | 25.68             | 26.00                   | 0.32   | 10.00           | 35.68      | 36.00            | 0.32        |
|  | 5790.00     | 23.20                     | 22.75                     | 25.99             | 26.00                   | 0.01   | 10.00           | 35.99      | 36.00            | 0.01        |
|  | 5845.00     | 22.95                     | 22.95                     | 25.96             | 26.00                   | 0.04   | 10.00           | 35.96      | 36.00            | 0.04        |
| QPSK   | 5730.00     | 22.30                     | 23.03                     | 25.69             | 26.00                   | 0.31   | 10.00           | 35.69      | 36.00            | 0.31        |
|  | 5790.00     | 23.18                     | 22.80                     | 26.00             | 26.00                   | 0.00   | 10.00           | 36.00      | 36.00            | 0.00        |
|  | 5845.00     | 22.80                     | 22.96                     | 25.89             | 26.00                   | 0.11   | 10.00           | 35.89      | 36.00            | 0.11        |
| 16QAM  | 5730.00     | 22.28                     | 23.06                     | 25.70             | 26.00                   | 0.30   | 10.00           | 35.70      | 36.00            | 0.30        |
|  | 5790.00     | 23.17                     | 22.70                     | 25.95             | 26.00                   | 0.05   | 10.00           | 35.95      | 36.00            | 0.05        |
|  | 5845.00     | 22.81                     | 22.94                     | 25.89             | 26.00                   | 0.11   | 10.00           | 35.89      | 36.00            | 0.11        |
| 64QAM  | 5730.00     | 22.52                     | 23.04                     | 25.80             | 26.00                   | 0.20   | 10.00           | 35.80      | 36.00            | 0.20        |
|  | 5790.00     | 23.19                     | 22.76                     | 25.99             | 26.00                   | 0.01   | 10.00           | 35.99      | 36.00            | 0.01        |
|  | 5845.00     | 22.78                     | 22.99                     | 25.90             | 26.00                   | 0.10   | 10.00           | 35.90      | 36.00            | 0.10        |

**Table 4: Power & EIRP Results: 5725-5850 MHz FCC & IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5735.00     | 13.32                     | 13.63                     | 16.49             | 17.00                   | 0.51   | 19.00           | 35.49      | 36.00            | 0.51        |
|       | 5790.00     | 13.99                     | 13.47                     | 16.75             | 17.00                   | 0.25   | 19.00           | 35.75      | 36.00            | 0.25        |
|       | 5840.00     | 13.35                     | 13.95                     | 16.67             | 17.00                   | 0.33   | 19.00           | 35.67      | 36.00            | 0.33        |
| QPSK  | 5735.00     | 13.33                     | 13.61                     | 16.48             | 17.00                   | 0.52   | 19.00           | 35.48      | 36.00            | 0.52        |
|       | 5790.00     | 14.01                     | 13.53                     | 16.79             | 17.00                   | 0.21   | 19.00           | 35.79      | 36.00            | 0.21        |
|       | 5840.00     | 13.32                     | 13.79                     | 16.57             | 17.00                   | 0.43   | 19.00           | 35.57      | 36.00            | 0.43        |
| 16QAM | 5735.00     | 13.43                     | 13.62                     | 16.54             | 17.00                   | 0.46   | 19.00           | 35.54      | 36.00            | 0.46        |
|       | 5790.00     | 14.01                     | 13.61                     | 16.82             | 17.00                   | 0.18   | 19.00           | 35.82      | 36.00            | 0.18        |
|       | 5840.00     | 13.32                     | 13.74                     | 16.55             | 17.00                   | 0.45   | 19.00           | 35.55      | 36.00            | 0.45        |
| 64QAM | 5735.00     | 13.62                     | 13.61                     | 16.63             | 17.00                   | 0.37   | 19.00           | 35.63      | 36.00            | 0.37        |
|       | 5790.00     | 13.99                     | 13.79                     | 16.90             | 17.00                   | 0.10   | 19.00           | 35.90      | 36.00            | 0.10        |
|       | 5840.00     | 13.29                     | 13.68                     | 16.50             | 17.00                   | 0.50   | 19.00           | 35.50      | 36.00            | 0.50        |
| BPSK  | 5735.00     | 22.64                     | 22.20                     | 25.44             | 26.00                   | 0.56   | 10.00           | 35.44      | 36.00            | 0.56        |
|       | 5790.00     | 22.49                     | 23.00                     | 25.76             | 26.00                   | 0.24   | 10.00           | 35.76      | 36.00            | 0.24        |
|       | 5840.00     | 23.41                     | 22.29                     | 25.90             | 26.00                   | 0.10   | 10.00           | 35.90      | 36.00            | 0.10        |
| QPSK  | 5735.00     | 22.69                     | 22.18                     | 25.45             | 26.00                   | 0.55   | 10.00           | 35.45      | 36.00            | 0.55        |
|       | 5790.00     | 22.51                     | 23.00                     | 25.77             | 26.00                   | 0.23   | 10.00           | 35.77      | 36.00            | 0.23        |
|       | 5840.00     | 23.41                     | 22.29                     | 25.90             | 26.00                   | 0.10   | 10.00           | 35.90      | 36.00            | 0.10        |
| 16QAM | 5735.00     | 22.67                     | 22.24                     | 25.47             | 26.00                   | 0.53   | 10.00           | 35.47      | 36.00            | 0.53        |
|       | 5790.00     | 22.50                     | 23.01                     | 25.77             | 26.00                   | 0.23   | 10.00           | 35.77      | 36.00            | 0.23        |
|       | 5840.00     | 23.38                     | 22.27                     | 25.87             | 26.00                   | 0.13   | 10.00           | 35.87      | 36.00            | 0.13        |
| 64QAM | 5735.00     | 22.64                     | 22.19                     | 25.43             | 26.00                   | 0.57   | 10.00           | 35.43      | 36.00            | 0.57        |
|       | 5790.00     | 22.54                     | 23.02                     | 25.80             | 26.00                   | 0.20   | 10.00           | 35.80      | 36.00            | 0.20        |
|       | 5840.00     | 23.39                     | 22.28                     | 25.88             | 26.00                   | 0.12   | 10.00           | 35.88      | 36.00            | 0.12        |

**Operation in the 5470-5725 MHz Band: FCC**

For operation in the 5470-5725 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

**Table 5: Power & EIRP Results: 5470-5725 MHz FCC & IC - 5 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5472.5      | 8.28                      | 7.68                      | 11.00             | 13.83                   | 2.83   | 10.00           | 21.00      | 23.83            | 2.83        |
|       | 5570.0      | 8.41                      | 9.20                      | 11.83             | 13.83                   | 2.00   | 10.00           | 21.83      | 23.83            | 2.00        |
|       | 5722.5      | 6.52                      | 6.89                      | 9.72              | 13.83                   | 4.11   | 10.00           | 19.72      | 23.83            | 4.11        |
| QPSK  | 5472.5      | 8.27                      | 7.59                      | 10.95             | 13.83                   | 2.88   | 10.00           | 20.95      | 23.83            | 2.88        |
|       | 5570.0      | 8.44                      | 9.23                      | 11.86             | 13.83                   | 1.97   | 10.00           | 21.86      | 23.83            | 1.97        |
|       | 5722.5      | 6.55                      | 6.89                      | 9.73              | 13.83                   | 4.10   | 10.00           | 19.73      | 23.83            | 4.10        |
| 16QAM | 5472.5      | 8.29                      | 7.61                      | 10.97             | 13.83                   | 2.86   | 10.00           | 20.97      | 23.83            | 2.86        |
|       | 5570.0      | 8.38                      | 9.27                      | 11.86             | 13.83                   | 1.97   | 10.00           | 21.86      | 23.83            | 1.97        |
|       | 5722.5      | 6.54                      | 6.89                      | 9.73              | 13.83                   | 4.10   | 10.00           | 19.73      | 23.83            | 4.10        |
| 64QAM | 5472.5      | 8.29                      | 7.66                      | 11.00             | 13.83                   | 2.83   | 10.00           | 21.00      | 23.83            | 2.83        |
|       | 5570.0      | 8.43                      | 9.24                      | 11.86             | 13.83                   | 1.97   | 10.00           | 21.86      | 23.83            | 1.97        |
|       | 5722.5      | 6.55                      | 6.89                      | 9.73              | 13.83                   | 4.10   | 10.00           | 19.73      | 23.83            | 4.10        |
| BPSK  | 5472.5      | -1.13                     | -0.93                     | 1.98              | 4.83                    | 2.85   | 19.00           | 20.98      | 23.83            | 2.85        |
|       | 5570.0      | -0.46                     | 0.13                      | 2.86              | 4.83                    | 1.97   | 19.00           | 21.86      | 23.83            | 1.97        |
|       | 5722.5      | -1.53                     | -1.37                     | 1.56              | 4.83                    | 3.27   | 19.00           | 20.56      | 23.83            | 3.27        |
| QPSK  | 5472.5      | -1.09                     | -0.95                     | 1.99              | 4.83                    | 2.84   | 19.00           | 20.99      | 23.83            | 2.84        |
|       | 5570.0      | -0.48                     | 0.12                      | 2.84              | 4.83                    | 1.99   | 19.00           | 21.84      | 23.83            | 1.99        |
|       | 5722.5      | -1.57                     | -1.34                     | 1.56              | 4.83                    | 3.27   | 19.00           | 20.56      | 23.83            | 3.27        |
| 16QAM | 5472.5      | -1.06                     | -0.97                     | 2.00              | 4.83                    | 2.83   | 19.00           | 21.00      | 23.83            | 2.83        |
|       | 5570.0      | -0.48                     | 0.15                      | 2.86              | 4.83                    | 1.97   | 19.00           | 21.86      | 23.83            | 1.97        |
|       | 5722.5      | -1.68                     | -1.30                     | 1.52              | 4.83                    | 3.31   | 19.00           | 20.52      | 23.83            | 3.31        |
| 64QAM | 5472.5      | -0.81                     | -0.96                     | 2.13              | 4.83                    | 2.70   | 19.00           | 21.13      | 23.83            | 2.70        |
|       | 5570.0      | -0.49                     | 0.32                      | 2.94              | 4.83                    | 1.89   | 19.00           | 21.94      | 23.83            | 1.89        |
|       | 5722.5      | -1.70                     | -1.33                     | 1.50              | 4.83                    | 3.33   | 19.00           | 20.50      | 23.83            | 3.33        |

**Table 6: Power & EIRP Results: 5470-5725 MHz FCC & IC - 10 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5475.0      | 9.14                      | 8.54                      | 11.86             | 16.84                   | 4.98   | 10.00           | 21.86      | 26.84            | 4.98        |
|       | 5570.0      | 12.03                     | 11.21                     | 14.65             | 16.84                   | 2.19   | 10.00           | 24.65      | 26.84            | 2.19        |
|       | 5720.0      | 8.64                      | 8.67                      | 11.67             | 16.84                   | 5.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| QPSK  | 5475.0      | 9.19                      | 8.58                      | 11.91             | 16.84                   | 4.93   | 10.00           | 21.91      | 26.84            | 4.93        |
|       | 5570.0      | 11.98                     | 11.19                     | 14.61             | 16.84                   | 2.23   | 10.00           | 24.61      | 26.84            | 2.23        |
|       | 5720.0      | 8.67                      | 8.65                      | 11.67             | 16.84                   | 5.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| 16QAM | 5475.0      | 9.15                      | 8.56                      | 11.88             | 16.84                   | 4.96   | 10.00           | 21.88      | 26.84            | 4.96        |
|       | 5570.0      | 12.00                     | 11.11                     | 14.59             | 16.84                   | 2.25   | 10.00           | 24.59      | 26.84            | 2.25        |
|       | 5720.0      | 8.66                      | 8.59                      | 11.64             | 16.84                   | 5.20   | 10.00           | 21.64      | 26.84            | 5.20        |
| 64QAM | 5475.0      | 9.13                      | 8.57                      | 11.87             | 16.84                   | 4.97   | 10.00           | 21.87      | 26.84            | 4.97        |
|       | 5570.0      | 11.99                     | 11.11                     | 14.58             | 16.84                   | 2.26   | 10.00           | 24.58      | 26.84            | 2.26        |
|       | 5720.0      | 8.66                      | 8.66                      | 11.67             | 16.84                   | 5.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| BPSK  | 5475.0      | -0.19                     | -0.19                     | 2.82              | 7.84                    | 5.02   | 19.00           | 21.82      | 26.84            | 5.02        |
|       | 5570.0      | 2.98                      | 2.17                      | 5.60              | 7.84                    | 2.24   | 19.00           | 24.60      | 26.84            | 2.24        |
|       | 5720.0      | -0.56                     | -0.99                     | 2.24              | 7.84                    | 5.60   | 19.00           | 21.24      | 26.84            | 5.60        |
| QPSK  | 5475.0      | -0.24                     | -0.17                     | 2.81              | 7.84                    | 5.03   | 19.00           | 21.81      | 26.84            | 5.03        |
|       | 5570.0      | 2.99                      | 2.15                      | 5.60              | 7.84                    | 2.24   | 19.00           | 24.60      | 26.84            | 2.24        |
|       | 5720.0      | -0.52                     | -0.35                     | 2.58              | 7.84                    | 5.26   | 19.00           | 21.58      | 26.84            | 5.26        |
| 16QAM | 5475.0      | -0.24                     | -0.16                     | 2.81              | 7.84                    | 5.03   | 19.00           | 21.81      | 26.84            | 5.03        |
|       | 5570.0      | 3.05                      | 2.14                      | 5.63              | 7.84                    | 2.21   | 19.00           | 24.63      | 26.84            | 2.21        |
|       | 5720.0      | -0.55                     | -0.45                     | 2.51              | 7.84                    | 5.33   | 19.00           | 21.51      | 26.84            | 5.33        |
| 64QAM | 5475.0      | -0.24                     | -0.01                     | 2.89              | 7.84                    | 4.95   | 19.00           | 21.89      | 26.84            | 4.95        |
|       | 5570.0      | 3.14                      | 2.15                      | 5.68              | 7.84                    | 2.16   | 19.00           | 24.68      | 26.84            | 2.16        |
|       | 5720.0      | -0.54                     | -0.51                     | 2.49              | 7.84                    | 5.35   | 19.00           | 21.49      | 26.84            | 5.35        |

**Table 7: Power & EIRP Results: 5470-5725 MHz FCC & IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5480.0      | 9.93                      | 10.79                     | 13.39             | 19.76                   | 6.37   | 10.00           | 23.39      | 29.76            | 6.37        |
|       | 5570.0      | 14.20                     | 14.36                     | 17.29             | 19.76                   | 2.47   | 10.00           | 27.29      | 29.76            | 2.47        |
|       | 5715.0      | 10.30                     | 10.39                     | 13.36             | 19.76                   | 6.40   | 10.00           | 23.36      | 29.76            | 6.40        |
| QPSK  | 5480.0      | 9.92                      | 10.85                     | 13.42             | 19.76                   | 6.34   | 10.00           | 23.42      | 29.76            | 6.34        |
|       | 5570.0      | 14.31                     | 14.35                     | 17.34             | 19.76                   | 2.42   | 10.00           | 27.34      | 29.76            | 2.42        |
|       | 5715.0      | 10.41                     | 10.42                     | 13.43             | 19.76                   | 6.33   | 10.00           | 23.43      | 29.76            | 6.33        |
| 16QAM | 5480.0      | 9.97                      | 10.70                     | 13.36             | 19.76                   | 6.40   | 10.00           | 23.36      | 29.76            | 6.40        |
|       | 5570.0      | 14.29                     | 14.37                     | 17.34             | 19.76                   | 2.42   | 10.00           | 27.34      | 29.76            | 2.42        |
|       | 5715.0      | 10.32                     | 10.41                     | 13.38             | 19.76                   | 6.38   | 10.00           | 23.38      | 29.76            | 6.38        |
| 64QAM | 5480.0      | 9.95                      | 10.76                     | 13.38             | 19.76                   | 6.38   | 10.00           | 23.38      | 29.76            | 6.38        |
|       | 5570.0      | 14.21                     | 14.35                     | 17.29             | 19.76                   | 2.47   | 10.00           | 27.29      | 29.76            | 2.47        |
|       | 5715.0      | 10.39                     | 10.38                     | 13.40             | 19.76                   | 6.36   | 10.00           | 23.40      | 29.76            | 6.36        |
| BPSK  | 5480.0      | 1.34                      | 1.82                      | 4.60              | 10.76                   | 6.17   | 19.00           | 23.60      | 29.76            | 6.16        |
|       | 5570.0      | 6.07                      | 5.18                      | 8.66              | 10.76                   | 2.11   | 19.00           | 27.66      | 29.76            | 2.10        |
|       | 5715.0      | 0.86                      | 0.70                      | 3.79              | 10.76                   | 6.97   | 19.00           | 22.79      | 29.76            | 6.97        |
| QPSK  | 5480.0      | 1.30                      | 1.82                      | 4.58              | 10.76                   | 6.19   | 19.00           | 23.58      | 29.76            | 6.18        |
|       | 5570.0      | 6.09                      | 5.20                      | 8.68              | 10.76                   | 2.09   | 19.00           | 27.68      | 29.76            | 2.08        |
|       | 5715.0      | 0.84                      | 0.74                      | 3.80              | 10.76                   | 6.96   | 19.00           | 22.80      | 29.76            | 6.96        |
| 16QAM | 5480.0      | 1.27                      | 1.85                      | 4.58              | 10.76                   | 6.18   | 19.00           | 23.58      | 29.76            | 6.18        |
|       | 5570.0      | 6.14                      | 5.18                      | 8.70              | 10.76                   | 2.07   | 19.00           | 27.70      | 29.76            | 2.06        |
|       | 5715.0      | 0.88                      | 0.71                      | 3.81              | 10.76                   | 6.96   | 19.00           | 22.81      | 29.76            | 6.95        |
| 64QAM | 5480.0      | 1.30                      | 1.99                      | 4.67              | 10.76                   | 6.10   | 19.00           | 23.67      | 29.76            | 6.09        |
|       | 5570.0      | 6.17                      | 5.19                      | 8.72              | 10.76                   | 2.05   | 19.00           | 27.72      | 29.76            | 2.04        |
|       | 5715.0      | 0.87                      | 0.80                      | 3.85              | 10.76                   | 6.92   | 19.00           | 22.85      | 29.76            | 6.91        |

### Operation in the 5470-5725 MHz Band: IC

For operation in the 5470-5725 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

| Table 8: Power & EIRP Results: 5470-5725 MHz FCC & IC - 5 MHz Channel |             |                           |                           |                   |                         |        |                 |            |                  |             |
|---|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
| BPSK  | 5472.5      | 8.28                      | 7.68                      | 11,00             | 17.83                   | 683    | 10,00           | 21.00      | 23.83            | 2.83        |
|   | 5570.0      | 8.41                      | 9.20                      | 11,83             | 17.83                   | 6,00   | 10,00           | 21.83      | 23.83            | 2.00        |
|   | 5722.5      | 6.52                      | 6.89                      | 9.72              | 17.83                   | 8,1 1  | 10, 00          | 19.72      | 23.83            | 4.11        |
| QPSK  | 5472.5      | 8.27                      | 7.59                      | 10,95             | 17.83                   | 6,88   | 10,00           | 20.95      | 23.83            | 2.88        |
|   | 5570.0      | 8.44                      | 9.23                      | 11,86             | 17.83                   | 5,97   | 10,00           | 21.86      | 23.83            | 1.97        |
|   | 5722.5      | 6.55                      | 6.89                      | 9,73              | 17.83                   | 8,1 0  | 10,00           | 19.73      | 23.83            | 4.10        |
| 16QAM   | 5472.5      | 8.29                      | 7.61                      | 10,97             | 17.83                   | 6,86   | 10, 00          | 20.97      | 23.83            | 2.86        |
|   | 5570.0      | 8.38                      | 9.27                      | 11,86             | 17.83                   | 5,97   | 10, 00          | 21.86      | 23.83            | 1.97        |
|   | 5722.5      | 6.54                      | 6.89                      | 9.73              | 17.83                   | 8, 10  | 10,00           | 19.73      | 23.83            | 4.10        |
| 64QAM   | 5472.5      | 8.29                      | 7.66                      | 11,00             | 17.83                   | 6,83   | 10,00           | 21.00      | 23.83            | 2.83        |
|   | 5570.0      | 8.43                      | 9.24                      | 11,86             | 17.83                   | 5,97   | 10,00           | 21.86      | 23.83            | 1.97        |
|   | 5722.5      | 6.55                      | 6.89                      | 9.73              | 17.83                   | 8, 10  | 10,00           | 19.73      | 23.83            | 4.10        |
| BPSK  | 5472.5      | -1. 13                    | -0.93                     | 1.98              | 17.83                   | 15.85  | 19, 00          | 20.98      | 23.83            | 2.85        |
|   | 5570.0      | -0.46                     | 0. 13                     | 2.86              | 17.83                   | 14.97  | 19,00           | 21.86      | 23.83            | 1.97        |
|   | 5722.5      | -1.53                     | -1.37                     | 1.56              | 17.83                   | 16.27  | 19,00           | 20.56      | 23.83            | 3.27        |
| QPSK  | 5472.5      | -1.09                     | -0.95                     | 1.99              | 17.83                   | 15.84  | 19,00           | 20.99      | 23.83            | 2.84        |
|   | 5570.0      | -0.48                     | 0. 12                     | 284               | 17.83                   | 14. 99 | 19,00           | 21.84      | 23.83            | 1.99        |
|   | 5722.5      | -1.57                     | -1.34                     | 1.56              | 17.83                   | 16.27  | 19,00           | 20.56      | 23.83            | 3.27        |
| 16QAM   | 5472.5      | -1.06                     | -0.97                     | 2.00              | 17.83                   | 15.83  | 19,00           | 21.00      | 23.83            | 2.83        |
|   | 5570.0      | -0.48                     | 0. 15                     | 286               | 17.83                   | 14. 97 | 19,00           | 21.86      | 23.83            | 1.97        |
|   | 5722.5      | -1.68                     | -1.30                     | 1.52              | 17.83                   | 16.31  | 19,00           | 20.52      | 23.83            | 3.31        |
| 64QAM   | 5472.5      | -0.81                     | -0.96                     | 2, 13             | 17.83                   | 15.70  | 19,00           | 21.13      | 23.83            | 2.70        |
|   | 5570.0      | -0.49                     | 0.32                      | 2.94              | 17.83                   | 14. 89 | 19,00           | 21.94      | 23.83            | 1.89        |
|   | 5722.5      | -1.70                     | -1.33                     | 1.50              | 17.83                   | 16.33  | 19,00           | 20.50      | 23.83            | 3.33        |

| Table 9: Power & EIRP Results: 5470-5725 MHz FCC & IC - 10 MHz Channel |             |                           |                           |                   |                         |        |                 |            |                  |             |
|--|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| Mod.   | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
| BPSK   | 5475.0      | 9.14                      | 8.54                      | 11.86             | 20.84                   | 8.98   | 10.00           | 21.86      | 26.84            | 4.98        |
|  | 5570.0      | 12.03                     | 11.21                     | 14.65             | 20.84                   | 6.19   | 10.00           | 24.65      | 26.84            | 2.19        |
|  | 5720.0      | 8.64                      | 8.67                      | 11.67             | 20.84                   | 9.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| QPSK   | 5475.0      | 9.19                      | 8.58                      | 11. 91            | 20.84                   | 8.93   | 10.00           | 21.91      | 26.84            | 4.93        |
|  | 5570.0      | 11.98                     | 11.19                     | 14.61             | 20.84                   | 6.23   | 10.00           | 24.61      | 26.84            | 2.23        |
|  | 5720.0      | 8.67                      | 8.65                      | 11.67             | 20.84                   | 9.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| 16QAM  | 5475.0      | 9.15                      | 8.56                      | 11.88             | 20.84                   | 8.96   | 10.00           | 21.88      | 26.84            | 4.96        |
|  | 5570.0      | 12.00                     | 11. 11                    | 14.59             | 20.84                   | 6.25   | 10.00           | 24.59      | 26.84            | 2.25        |
|  | 5720.0      | 8.66                      | 8.59                      | 11.64             | 20.84                   | 9.20   | 10.00           | 21.64      | 26.84            | 5.20        |
| 64QAM  | 5475.0      | 9.13                      | 8.57                      | 11.87             | 20.84                   | 8.97   | 10.00           | 21.87      | 26.84            | 4.97        |
|  | 5570.0      | 11.99                     | 11. 11                    | 14.58             | 20.84                   | 6.26   | 10.00           | 24.58      | 26.84            | 2.26        |
|  | 5720.0      | 8.66                      | 8.66                      | 11.67             | 20.84                   | 9.17   | 10.00           | 21.67      | 26.84            | 5.17        |
| BPSK   | 5475.0      | -0.19                     | -0.19                     | 2.82              | 20.84                   | 18.02  | 19.00           | 21.82      | 26.84            | 5.02        |
|  | 5570.0      | 2.98                      | 2.17                      | 5.60              | 20.84                   | 15.24  | 19.00           | 24.60      | 26.84            | 2.24        |
|  | 5720.0      | -0.56                     | -0.99                     | 2.24              | 20.84                   | 18.60  | 19.00           | 21.24      | 26.84            | 5.60        |
| QPSK   | 5475.0      | -0.24                     | -0.17                     | 2.81              | 20.84                   | 18.03  | 19.00           | 21.81      | 26.84            | 5.03        |
|  | 5570.0      | 2.99                      | 2.15                      | 5.60              | 20.84                   | 15.24  | 19.00           | 24.60      | 26.84            | 2.24        |
|  | 5720.0      | -0.52                     | -0.35                     | 2.58              | 20.84                   | 18.26  | 19.00           | 21.58      | 26.84            | 5.26        |
| 16QAM  | 5475.0      | -0.24                     | -0.16                     | 2.81              | 20.84                   | 18.03  | 19.00           | 21.81      | 26.84            | 5.03        |
|  | 5570.0      | 3.05                      | 2.14                      | 5.63              | 20.84                   | 15.21  | 19.00           | 24.63      | 26.84            | 2.21        |
|  | 5720.0      | -0.55                     | -0.45                     | 2.51              | 20.84                   | 18.33  | 19.00           | 21.51      | 26.84            | 5.33        |
| 64QAM  | 5475.0      | -0.24                     | -0.01                     | 2.89              | 20.84                   | 17.95  | 19.00           | 21.89      | 26.84            | 4.95        |
|  | 5570.0      | 3.14                      | 2.15                      | 5.68              | 20.84                   | 15.1 6 | 19.00           | 24.68      | 26.84            | 2.16        |
|  | 5720.0      | -0.54                     | -0.51                     | 2.49              | 20.84                   | 18.35  | 19.00           | 21.49      | 26.84            | 5.35        |

**Table 10: Power & EIRP Results: 5470-5725 MHz FCC & IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5480.0      | 9.93                      | 10.79                     | 13.39             | 23.76                   | 10.37  | 10.00           | 23.39      | 29.76            | 6.37        |
|       | 5570.0      | 14.20                     | 14.36                     | 17.29             | 23.76                   | 6.47   | 10.00           | 27.29      | 29.76            | 2.47        |
|       | 5715.0      | 10.30                     | 10.39                     | 13.36             | 23.76                   | 10.40  | 10.00           | 23.36      | 29.76            | 6.40        |
| QPSK  | 5480.0      | 9.92                      | 10.85                     | 13.42             | 23.76                   | 10.34  | 10.00           | 23.42      | 29.76            | 6.34        |
|       | 5570.0      | 14.31                     | 14.35                     | 17.34             | 23.76                   | 6.42   | 10.00           | 27.34      | 29.76            | 2.42        |
|       | 5715.0      | 10.41                     | 10.42                     | 13.43             | 23.76                   | 10.33  | 10.00           | 23.43      | 29.76            | 6.33        |
| 16QAM | 5480.0      | 9.97                      | 10.70                     | 13.36             | 23.76                   | 10.40  | 10.00           | 23.36      | 29.76            | 6.40        |
|       | 5570.0      | 14.29                     | 14.37                     | 17.34             | 23.76                   | 6.42   | 10.00           | 27.34      | 29.76            | 2.42        |
|       | 5715.0      | 10.32                     | 10.41                     | 13.38             | 23.76                   | 10.38  | 10.00           | 23.38      | 29.76            | 6.38        |
| 64QAM | 5480.0      | 9.95                      | 10.76                     | 13.38             | 23.76                   | 10.38  | 10.00           | 23.38      | 29.76            | 6.38        |
|       | 5570.0      | 14.21                     | 14.35                     | 17.29             | 23.76                   | 6.47   | 10.00           | 27.29      | 29.76            | 2.47        |
|       | 5715.0      | 10.39                     | 10.38                     | 13.40             | 23.76                   | 10.36  | 10.00           | 23.40      | 29.76            | 6.36        |
| BPSK  | 5480.0      | 1.34                      | 1.82                      | 4.60              | 23.76                   | 19.16  | 19.00           | 23.60      | 29.76            | 6.16        |
|       | 5570.0      | 6.07                      | 5.18                      | 8.66              | 23.76                   | 15.10  | 19.00           | 27.66      | 29.76            | 2.10        |
|       | 5715.0      | 0.86                      | 0.70                      | 3.79              | 23.76                   | 19.97  | 19.00           | 22.79      | 29.76            | 6.97        |
| QPSK  | 5480.0      | 1.30                      | 1.82                      | 4.58              | 23.76                   | 19.18  | 19.00           | 23.58      | 29.76            | 6.18        |
|       | 5570.0      | 6.09                      | 5.20                      | 8.68              | 23.76                   | 15.08  | 19.00           | 27.68      | 29.76            | 2.08        |
|       | 5715.0      | 0.84                      | 0.74                      | 3.80              | 23.76                   | 19.96  | 19.00           | 22.80      | 29.76            | 6.96        |
| 16QAM | 5480.0      | 1.27                      | 1.85                      | 4.58              | 23.76                   | 19.18  | 19.00           | 23.58      | 29.76            | 6.18        |
|       | 5570.0      | 6.14                      | 5.18                      | 8.70              | 23.76                   | 15.06  | 19.00           | 27.70      | 29.76            | 2.06        |
|       | 5715.0      | 0.88                      | 0.71                      | 3.81              | 23.76                   | 19.95  | 19.00           | 22.81      | 29.76            | 6.95        |
| 64QAM | 5480.0      | 1.30                      | 1.99                      | 4.67              | 23.76                   | 19.09  | 19.00           | 23.67      | 29.76            | 6.09        |
|       | 5570.0      | 6.17                      | 5.19                      | 8.72              | 23.76                   | 15.04  | 19.00           | 27.72      | 29.76            | 2.04        |
|       | 5715.0      | 0.87                      | 0.80                      | 3.85              | 23.76                   | 19.91  | 19.00           | 22.85      | 29.76            | 6.91        |

**Operation in the 5250-5350 MHz Band: FCC**

For operation in the 5250-5350 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

**Table 11: Power & EIRP Results: 5250-5350 MHz FCC & IC - 5 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5252.5      | -0.24                     | -0.22                     | 2.78              | 4.95                    | 2.17   | 19.00           | 21.78      | 23.95            | 2.17        |
|       | 5300.0      | -0.66                     | 0.72                      | 3.09              | 4.95                    | 1.86   | 19.00           | 22.09      | 23.95            | 1.86        |
|       | 5345.0      | -0.41                     | 0.65                      | 3.16              | 4.95                    | 1.79   | 19.00           | 22.16      | 23.95            | 1.79        |
| QPSK  | 5252.5      | -0.08                     | 0.32                      | 3.13              | 4.95                    | 1.82   | 19.00           | 22.13      | 23.95            | 1.82        |
|       | 5300.0      | -0.19                     | 0.19                      | 3.01              | 4.95                    | 1.94   | 19.00           | 22.01      | 23.95            | 1.94        |
|       | 5345.0      | -0.42                     | 0.47                      | 3.06              | 4.95                    | 1.89   | 19.00           | 22.06      | 23.95            | 1.89        |
| 16QAM | 5252.5      | -0.19                     | 0.19                      | 3.01              | 4.95                    | 1.94   | 19.00           | 22.01      | 23.95            | 1.94        |
|       | 5300.0      | -0.28                     | 0.10                      | 2.92              | 4.95                    | 2.03   | 19.00           | 21.92      | 23.95            | 2.03        |
|       | 5345.0      | 0.04                      | 0.38                      | 3.22              | 4.95                    | 1.73   | 19.00           | 22.22      | 23.95            | 1.73        |
| 64QAM | 5252.5      | 0.36                      | -0.50                     | 2.96              | 4.95                    | 1.99   | 19.00           | 21.96      | 23.95            | 1.99        |
|       | 5300.0      | -0.15                     | 0.29                      | 3.09              | 4.95                    | 1.86   | 19.00           | 22.09      | 23.95            | 1.86        |
|       | 5345.0      | -1.42                     | 0.56                      | 2.69              | 4.95                    | 2.26   | 19.00           | 21.69      | 23.95            | 2.26        |

**Table 12: Power & EIRP Results: 5250-5350 MHz FCC & IC - 10 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5255.0      | -0.43                     | 0.49                      | 3.06              | 7.89                    | 4.83   | 19.00           | 22.06      | 26.89            | 5.11        |
|       | 5300.0      | 3.02                      | 2.45                      | 5.75              | 7.89                    | 2.14   | 19.00           | 24.75      | 26.89            | 4.80        |
|       | 5342.5      | 3.35                      | 2.73                      | 6.06              | 7.89                    | 1.83   | 19.00           | 25.06      | 26.89            | 4.73        |
| QPSK  | 5255.0      | -0.46                     | 0.48                      | 3.05              | 7.89                    | 4.84   | 19.00           | 22.05      | 26.89            | 4.76        |
|       | 5300.0      | 2.97                      | 2.39                      | 5.70              | 7.89                    | 2.19   | 19.00           | 24.70      | 26.89            | 4.88        |
|       | 5342.5      | 3.22                      | 2.70                      | 5.98              | 7.89                    | 1.91   | 19.00           | 24.98      | 26.89            | 4.83        |
| 16QAM | 5255.0      | -0.49                     | 0.49                      | 3.04              | 7.89                    | 4.85   | 19.00           | 22.04      | 26.89            | 4.88        |
|       | 5300.0      | 2.97                      | 2.34                      | 5.68              | 7.89                    | 2.21   | 19.00           | 24.68      | 26.89            | 4.97        |
|       | 5342.5      | 3.31                      | 2.64                      | 6.00              | 7.89                    | 1.89   | 19.00           | 25.00      | 26.89            | 4.67        |
| 64QAM | 5255.0      | -0.50                     | 0.48                      | 3.03              | 7.89                    | 4.86   | 19.00           | 22.03      | 26.89            | 4.93        |
|       | 5300.0      | 3.12                      | 2.48                      | 5.82              | 7.89                    | 2.07   | 19.00           | 24.82      | 26.89            | 4.80        |
|       | 5342.5      | 3.34                      | 2.77                      | 6.07              | 7.89                    | 1.82   | 19.00           | 25.07      | 26.89            | 5.20        |

**Table 13: Power & EIRP Results: 5250-5350 MHz FCC & IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5260.0      | 0.56                      | 1.32                      | 3.97              | 10.96                   | 6.99   | 19.00           | 22.97      | 29.96            | 8.18        |
|       | 2300.0      | 5.56                      | 5.68                      | 8.63              | 10.96                   | 2.33   | 19.00           | 27.63      | 29.96            | 7.87        |
|       | 5337.5      | 5.74                      | 5.11                      | 8.45              | 10.96                   | 2.51   | 19.00           | 27.45      | 29.96            | 7.80        |
| QPSK  | 5260.0      | 0.52                      | 1.24                      | 3.91              | 10.96                   | 7.05   | 19.00           | 22.91      | 29.96            | 7.83        |
|       | 2300.0      | 5.48                      | 5.67                      | 8.59              | 10.96                   | 2.37   | 19.00           | 27.59      | 29.96            | 7.95        |
|       | 5337.5      | 5.88                      | 5.07                      | 8.50              | 10.96                   | 2.46   | 19.00           | 27.50      | 29.96            | 7.90        |
| 16QAM | 5260.0      | 0.52                      | 1.22                      | 3.89              | 10.96                   | 7.07   | 19.00           | 22.89      | 29.96            | 7.95        |
|       | 2300.0      | 5.39                      | 5.62                      | 8.52              | 10.96                   | 2.44   | 19.00           | 27.52      | 29.96            | 8.04        |
|       | 5337.5      | 5.69                      | 5.11                      | 8.42              | 10.96                   | 2.54   | 19.00           | 27.42      | 29.96            | 7.74        |
| 64QAM | 5260.0      | 0.72                      | 1.23                      | 3.99              | 10.96                   | 6.97   | 19.00           | 22.99      | 29.96            | 8.00        |
|       | 2300.0      | 5.43                      | 5.61                      | 8.53              | 10.96                   | 2.43   | 19.00           | 27.53      | 29.96            | 7.87        |
|       | 5337.5      | 5.78                      | 5.05                      | 8.44              | 10.96                   | 2.52   | 19.00           | 27.44      | 29.96            | 8.27        |

**Operation in the 5250-5350 MHz Band: IC**

For operation in the 5250-5350 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

**Table 14: Power & EIRP Results: 5250-5350 MHz FCC & IC - 5 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5252.50     | -0.24                     | -0.22                     | 2.78              | 17.21                   | 14.43  | 19.00           | 21.78      | 23.21            | 1.43        |
|       | 5300.00     | -0.66                     | 0.72                      | 3.09              | 17.21                   | 14.12  | 19.00           | 22.09      | 23.21            | 1.12        |
|       | 5345.00     | -0.41                     | 0.65                      | 3.16              | 17.21                   | 14.05  | 19.00           | 22.16      | 23.21            | 1.05        |
| QPSK  | 5252.50     | -0.08                     | 0.32                      | 3.13              | 17.21                   | 14.08  | 19.00           | 22.13      | 23.21            | 1.08        |
|       | 5300.00     | -0.19                     | 0.19                      | 3.01              | 17.21                   | 14.20  | 19.00           | 22.01      | 23.21            | 1.20        |
|       | 5345.00     | -0.42                     | 0.47                      | 3.06              | 17.21                   | 14.15  | 19.00           | 22.06      | 23.21            | 1.15        |
| 16QAM | 5252.50     | -0.19                     | 0.19                      | 3.01              | 17.21                   | 14.20  | 19.00           | 22.01      | 23.21            | 1.20        |
|       | 5300.00     | -0.28                     | 0.10                      | 2.92              | 17.21                   | 14.29  | 19.00           | 21.92      | 23.21            | 1.29        |
|       | 5345.00     | 0.04                      | 0.38                      | 3.22              | 17.21                   | 13.99  | 19.00           | 22.22      | 23.21            | 0.99        |
| 64QAM | 5252.50     | 0.36                      | -0.50                     | 2.96              | 17.21                   | 14.25  | 19.00           | 21.96      | 23.21            | 1.25        |
|       | 5300.00     | -0.15                     | 0.29                      | 3.09              | 17.21                   | 14.12  | 19.00           | 22.09      | 23.21            | 1.12        |
|       | 5345.00     | -1.42                     | 0.56                      | 2.69              | 17.21                   | 14.52  | 19.00           | 21.69      | 23.21            | 1.52        |



**Table 15: Power & EIRP Results: 5250-5350 MHz FCC & IC - 10 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5255.0      | -0.43                     | 0.49                      | 3.06              | 20.17                   | 17.11  | 19.00           | 22.06      | 26.17            | 4.11        |
|       | 5300.0      | 1.18                      | 0.71                      | 3.96              | 20.17                   | 16.21  | 19.00           | 22.96      | 26.17            | 3.21        |
|       | 5342.5      | 0.13                      | 0.97                      | 3.58              | 20.17                   | 16.59  | 19.00           | 22.58      | 26.17            | 3.59        |
| QPSK  | 5255.0      | -0.46                     | 0.48                      | 3.05              | 20.17                   | 17.12  | 19.00           | 22.05      | 26.17            | 4.12        |
|       | 5300.0      | 1.17                      | 0.70                      | 3.95              | 20.17                   | 16.22  | 19.00           | 22.95      | 26.17            | 3.22        |
|       | 5342.5      | 0.11                      | 0.96                      | 3.57              | 20.17                   | 16.60  | 19.00           | 22.57      | 26.17            | 3.6         |
| 16QAM | 5255.0      | -0.49                     | 0.49                      | 3.04              | 20.17                   | 17.13  | 19.00           | 22.04      | 26.17            | 4.13        |
|       | 5300.0      | 1.18                      | 0.68                      | 3.95              | 20.17                   | 16.22  | 19.00           | 22.95      | 26.17            | 3.22        |
|       | 5342.5      | 0.03                      | 0.96                      | 3.53              | 20.17                   | 16.64  | 19.00           | 22.53      | 26.17            | 3.64        |
| 64QAM | 5255.0      | -0.5                      | 0.48                      | 3.03              | 20.17                   | 17.14  | 19.00           | 22.03      | 26.17            | 4.14        |
|       | 5300.0      | 1.16                      | 0.72                      | 3.96              | 20.17                   | 16.21  | 19.00           | 22.96      | 26.17            | 3.21        |
|       | 5342.5      | 0.23                      | 0.96                      | 3.62              | 20.17                   | 16.55  | 19.00           | 22.62      | 26.17            | 3.55        |

**Table 16: Power & EIRP Results: 5250-5350 MHz FCC & IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 5260.00     | 0.56                      | 1.32                      | 3.97              | 23.19                   | 19.22  | 19.00           | 22.97      | 29.19            | 6.22        |
|       | 5300.00     | 1.06                      | 0.25                      | 3.68              | 23.19                   | 19.51  | 19.00           | 22.68      | 29.19            | 6.51        |
|       | 5337.50     | 1.20                      | 0.50                      | 3.87              | 23.19                   | 19.32  | 19.00           | 22.87      | 29.19            | 6.32        |
| QPSK  | 5260.00     | 0.52                      | 1.24                      | 3.91              | 23.19                   | 19.28  | 19.00           | 22.91      | 29.19            | 6.28        |
|       | 5300.00     | 0.79                      | 0.25                      | 3.54              | 23.19                   | 19.65  | 19.00           | 22.54      | 29.19            | 6.65        |
|       | 5337.50     | 1.09                      | 0.48                      | 3.81              | 23.19                   | 19.38  | 19.00           | 22.81      | 29.19            | 6.38        |
| 16QAM | 5260.00     | 0.52                      | 1.22                      | 3.89              | 23.19                   | 19.30  | 19.00           | 22.89      | 29.19            | 6.30        |
|       | 5300.00     | 0.80                      | 0.24                      | 3.54              | 23.19                   | 19.65  | 19.00           | 22.54      | 29.19            | 6.65        |
|       | 5337.50     | 1.13                      | 0.51                      | 3.84              | 23.19                   | 19.35  | 19.00           | 22.84      | 29.19            | 6.35        |
| 64QAM | 5260.00     | 0.72                      | 1.23                      | 3.99              | 23.19                   | 19.20  | 19.00           | 22.99      | 29.19            | 6.20        |
|       | 5300.00     | 0.76                      | 0.24                      | 3.52              | 23.19                   | 19.67  | 19.00           | 22.52      | 29.19            | 6.67        |
|       | 5337.50     | 1.13                      | 0.48                      | 3.83              | 23.19                   | 19.36  | 19.00           | 22.83      | 29.19            | 6.36        |

**Operation in the 4940-4990 MHz Band: FCC**

For operation in the 4940-4990 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

**Table 17: Power & EIRP Results: 4940-4990 MHz FCC - 5 MHz Channel**

| Mod.   | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|--------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK   | 4942.5      | 19.07                     | 18.34                     | 21.73             | 27.00                   | 5.27   | 19.00           | 40.73      | 53.00            | 12.27       |
|        | 4965.0      | 18.91                     | 19.00                     | 21.97             | 27.00                   | 5.03   | 19.00           | 40.97      | 53.00            | 12.03       |
|        | 4987.5      | 19.41                     | 19.65                     | 22.54             | 27.00                   | 4.46   | 19.00           | 41.54      | 53.00            | 11.46       |
| QPSK   | 4942.5      | 18.60                     | 18.29                     | 21.46             | 27.00                   | 5.54   | 19.00           | 40.46      | 53.00            | 12.54       |
|        | 4965.0      | 18.65                     | 20.12                     | 22.46             | 27.00                   | 4.54   | 19.00           | 41.46      | 53.00            | 11.54       |
|        | 4987.5      | 18.33                     | 19.31                     | 21.86             | 27.00                   | 5.14   | 19.00           | 40.86      | 53.00            | 12.14       |
| 16-QAM | 4942.5      | 18.52                     | 18.25                     | 21.40             | 27.00                   | 5.60   | 19.00           | 40.40      | 53.00            | 12.60       |
|        | 4965.0      | 18.57                     | 18.86                     | 21.73             | 27.00                   | 5.27   | 19.00           | 40.73      | 53.00            | 12.27       |
|        | 4987.5      | 19.14                     | 18.40                     | 21.80             | 27.00                   | 5.20   | 19.00           | 40.80      | 53.00            | 12.20       |
| 64-QAM | 4942.5      | 18.76                     | 19.44                     | 22.12             | 27.00                   | 4.88   | 19.00           | 41.12      | 53.00            | 11.88       |
|        | 4965.0      | 18.79                     | 18.77                     | 21.79             | 27.00                   | 5.21   | 19.00           | 40.79      | 53.00            | 12.21       |
|        | 4987.5      | 19.53                     | 19.25                     | 22.40             | 27.00                   | 4.60   | 19.00           | 41.40      | 53.00            | 11.60       |

**Table 18: Power & EIRP Results: 4940-4990 MHz FCC - 10 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 4945.0      | 18.55                     | 19.26                     | 21.93             | 30.00                   | 8.07   | 19.00           | 40.93      | 56.00            | 15.07       |
|       | 4965.0      | 18.45                     | 18.67                     | 21.57             | 30.00                   | 8.43   | 19.00           | 40.57      | 56.00            | 15.43       |
|       | 4985.0      | 18.91                     | 19.03                     | 21.98             | 30.00                   | 8.02   | 19.00           | 40.98      | 56.00            | 15.02       |
| QPSK  | 4945.0      | 18.16                     | 19.22                     | 21.73             | 30.00                   | 8.27   | 19.00           | 40.73      | 56.00            | 15.27       |
|       | 4965.0      | 18.07                     | 19.78                     | 22.02             | 30.00                   | 7.98   | 19.00           | 41.02      | 56.00            | 14.98       |
|       | 4985.0      | 18.82                     | 18.92                     | 21.88             | 30.00                   | 8.12   | 19.00           | 40.88      | 56.00            | 15.12       |
| 16QAM | 4945.0      | 18.10                     | 19.22                     | 21.71             | 30.00                   | 8.29   | 19.00           | 40.71      | 56.00            | 15.29       |
|       | 4965.0      | 18.12                     | 18.63                     | 21.39             | 30.00                   | 8.61   | 19.00           | 40.39      | 56.00            | 15.61       |
|       | 4985.0      | 18.60                     | 18.99                     | 21.81             | 30.00                   | 8.19   | 19.00           | 40.81      | 56.00            | 15.19       |
| 64QAM | 4945.0      | 18.54                     | 19.22                     | 21.90             | 30.00                   | 8.10   | 19.00           | 40.90      | 56.00            | 15.10       |
|       | 4965.0      | 18.56                     | 18.56                     | 21.57             | 30.00                   | 8.43   | 19.00           | 40.57      | 56.00            | 15.43       |
|       | 4985.0      | 19.17                     | 18.89                     | 22.04             | 30.00                   | 7.96   | 19.00           | 41.04      | 56.00            | 14.96       |

**Table 19: Power & EIRP Results: 4940-4990 MHz FCC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 4950.0      | 20.08                     | 20.95                     | 23.55             | 33.00                   | 9.45   | 19.00           | 42.55      | 59.00            | 16.45       |
|       | 4965.0      | 19.73                     | 20.04                     | 22.90             | 33.00                   | 10.10  | 19.00           | 41.90      | 59.00            | 17.10       |
|       | 4980.0      | 20.11                     | 20.23                     | 23.18             | 33.00                   | 9.82   | 19.00           | 42.18      | 59.00            | 16.82       |
| QPSK  | 4950.0      | 20.45                     | 20.71                     | 23.59             | 33.00                   | 9.41   | 19.00           | 42.59      | 59.00            | 16.41       |
|       | 4965.0      | 19.88                     | 19.95                     | 22.93             | 33.00                   | 10.07  | 19.00           | 41.93      | 59.00            | 17.07       |
|       | 4980.0      | 20.23                     | 20.13                     | 23.19             | 33.00                   | 9.81   | 19.00           | 42.19      | 59.00            | 16.81       |
| 16QAM | 4950.0      | 20.35                     | 20.61                     | 23.49             | 33.00                   | 9.51   | 19.00           | 42.49      | 59.00            | 16.51       |
|       | 4965.0      | 19.74                     | 19.86                     | 22.81             | 33.00                   | 10.19  | 19.00           | 41.81      | 59.00            | 17.19       |
|       | 4980.0      | 21.19                     | 20.10                     | 23.69             | 33.00                   | 9.31   | 19.00           | 42.69      | 59.00            | 16.31       |
| 64QAM | 4950.0      | 19.98                     | 20.84                     | 23.44             | 33.00                   | 9.56   | 19.00           | 42.44      | 59.00            | 16.56       |
|       | 4965.0      | 19.59                     | 19.97                     | 22.79             | 33.00                   | 10.21  | 19.00           | 41.79      | 59.00            | 17.21       |
|       | 4980.0      | 19.97                     | 20.17                     | 23.08             | 33.00                   | 9.92   | 19.00           | 42.08      | 59.00            | 16.92       |

**Operation in the 4940-4990 MHz Band: IC**

For operation in the 4940-4990 MHz band, the RDL-3000-RMA may be set to operate using a 5, 10, or 20 MHz channel.

**Table 20: Power & EIRP Results: 4940-4990 MHz IC - 5 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 4942.5      | 21.49                     | 21.15                     | 24.33             | 27.00                   | 2.67   | 19.00           | 43.33      | 53.00            | 9.67        |
|       | 4965.0      | 21.53                     | 21.83                     | 24.69             | 27.00                   | 2.31   | 19.00           | 43.69      | 53.00            | 9.31        |
|       | 4987.5      | 22.10                     | 21.08                     | 24.63             | 27.00                   | 2.37   | 19.00           | 43.63      | 53.00            | 9.37        |
| QPSK  | 4942.5      | 21.39                     | 21.19                     | 24.30             | 27.00                   | 2.70   | 19.00           | 43.30      | 53.00            | 9.70        |
|       | 4965.0      | 21.64                     | 20.76                     | 24.23             | 27.00                   | 2.77   | 19.00           | 43.23      | 53.00            | 9.77        |
|       | 4987.5      | 20.98                     | 21.02                     | 24.01             | 27.00                   | 2.99   | 19.00           | 43.01      | 53.00            | 9.99        |
| 16QAM | 4942.5      | 21.49                     | 21.05                     | 24.29             | 27.00                   | 2.71   | 19.00           | 43.29      | 53.00            | 9.71        |
|       | 4965.0      | 21.67                     | 20.85                     | 24.29             | 27.00                   | 2.71   | 19.00           | 43.29      | 53.00            | 9.71        |
|       | 4987.5      | 20.96                     | 20.86                     | 23.92             | 27.00                   | 3.08   | 19.00           | 42.92      | 53.00            | 10.08       |
| 64QAM | 4942.5      | 21.47                     | 21.18                     | 24.34             | 27.00                   | 2.66   | 19.00           | 43.34      | 53.00            | 9.66        |
|       | 4965.0      | 21.63                     | 20.83                     | 24.26             | 27.00                   | 2.74   | 19.00           | 43.26      | 53.00            | 9.74        |
|       | 4987.5      | 20.95                     | 21.01                     | 23.99             | 27.00                   | 3.01   | 19.00           | 42.99      | 53.00            | 10.01       |



**Table 21: Power & EIRP Results: 4940-4990 MHz IC - 10 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 4945.0      | 24.96                     | 25.43                     | 28.21             | 30.00                   | 1.79   | 19.00           | 47.21      | 56.00            | 8.79        |
|       | 4965.0      | 24.72                     | 24.92                     | 27.83             | 30.00                   | 2.17   | 19.00           | 46.83      | 56.00            | 9.17        |
|       | 4985.0      | 25.34                     | 25.05                     | 28.21             | 30.00                   | 1.79   | 19.00           | 47.21      | 56.00            | 8.79        |
| QPSK  | 4945.0      | 24.84                     | 25.32                     | 28.10             | 30.00                   | 1.90   | 19.00           | 47.10      | 56.00            | 8.90        |
|       | 4965.0      | 24.72                     | 24.82                     | 27.78             | 30.00                   | 2.22   | 19.00           | 46.78      | 56.00            | 9.22        |
|       | 4985.0      | 25.33                     | 25.01                     | 28.18             | 30.00                   | 1.82   | 19.00           | 47.18      | 56.00            | 8.82        |
| 16QAM | 4945.0      | 24.71                     | 25.34                     | 28.05             | 30.00                   | 1.95   | 19.00           | 47.05      | 56.00            | 8.95        |
|       | 4965.0      | 24.72                     | 24.64                     | 27.69             | 30.00                   | 2.31   | 19.00           | 46.69      | 56.00            | 9.31        |
|       | 4985.0      | 25.30                     | 25.16                     | 28.24             | 30.00                   | 1.76   | 19.00           | 47.24      | 56.00            | 8.76        |
| 64QAM | 4945.0      | 24.68                     | 25.41                     | 28.07             | 30.00                   | 1.93   | 19.00           | 47.07      | 56.00            | 8.93        |
|       | 4965.0      | 24.80                     | 24.85                     | 27.84             | 30.00                   | 2.16   | 19.00           | 46.84      | 56.00            | 9.16        |
|       | 4985.0      | 25.34                     | 25.11                     | 28.24             | 30.00                   | 1.76   | 19.00           | 47.24      | 56.00            | 8.76        |

**Table 22: Power & EIRP Results: 4940-4990 MHz IC - 20 MHz Channel**

| Mod.  | Freq. (MHz) | Cond. power, port 1 (dBm) | Cond. power, port 2 (dBm) | Comb. power (dBm) | Cond. power limit (dBm) | Margin | Ant. Gain (dBi) | EIRP (dBm) | EIRP limit (dBm) | Margin (dB) |
|-------|-------------|---------------------------|---------------------------|-------------------|-------------------------|--------|-----------------|------------|------------------|-------------|
| BPSK  | 4950.0      | 30.01                     | 29.53                     | 32.79             | 33.00                   | 0.21   | 19.00           | 51.79      | 59.00            | 7.21        |
|       | 4965.0      | 29.69                     | 29.67                     | 32.69             | 33.00                   | 0.31   | 19.00           | 51.69      | 59.00            | 7.31        |
|       | 4980.0      | 29.76                     | 30.11                     | 32.95             | 33.00                   | 0.05   | 19.00           | 51.95      | 59.00            | 7.05        |
| QPSK  | 4950.0      | 30.19                     | 29.27                     | 32.76             | 33.00                   | 0.24   | 19.00           | 51.76      | 59.00            | 7.24        |
|       | 4965.0      | 29.52                     | 29.97                     | 32.76             | 33.00                   | 0.24   | 19.00           | 51.76      | 59.00            | 7.24        |
|       | 4980.0      | 29.92                     | 30.04                     | 32.99             | 33.00                   | 0.01   | 19.00           | 51.99      | 59.00            | 7.01        |
| 16QAM | 4950.0      | 29.86                     | 29.49                     | 32.69             | 33.00                   | 0.31   | 19.00           | 51.69      | 59.00            | 7.31        |
|       | 4965.0      | 29.73                     | 29.80                     | 32.78             | 33.00                   | 0.22   | 19.00           | 51.78      | 59.00            | 7.22        |
|       | 4980.0      | 30.18                     | 28.70                     | 32.51             | 33.00                   | 0.49   | 19.00           | 51.51      | 59.00            | 7.49        |
| 64QAM | 4950.0      | 30.22                     | 29.06                     | 32.69             | 33.00                   | 0.31   | 19.00           | 51.69      | 59.00            | 7.31        |
|       | 4965.0      | 30.63                     | 28.47                     | 32.69             | 33.00                   | 0.31   | 19.00           | 51.69      | 59.00            | 7.31        |
|       | 4980.0      | 30.05                     | 28.85                     | 32.50             | 33.00                   | 0.50   | 19.00           | 51.50      | 59.00            | 7.50        |

## 5 Regulatory Notices

### FCC Notices: Deployment in USA:

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

1. The final product must be professionally installed.
2. 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 23: FCC: Recommended Safe Distances |            |                           |
|---|------------|---------------------------|
| Frequency (MHz)                           | Deployment | Separation Distance       |
| 4900                                      | PMP        | 120 cm (47.25 in) or more |
| 5300                                      | PMP        | 20 cm (7.8 in) or more    |
| 5400                                      | PMP        | 20 cm (7.8 in) or more    |
| 5800                                      | PMP        | 20 cm (7.8 in) 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.

### 5.1.1 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](http://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 24: FCC: TDWR System Locations**

| STATE | CITY            | LONGITUDE   | LATITUDE   | FREQUENCY | TERRAIN ELEVATION (MSL) [ft] | ANTENNA HEIGHT ABOVE TERRAIN [ft] |
|-------|-----------------|-------------|------------|-----------|------------------------------|-----------------------------------|
| AZ    | PHOENIX         | W 112 09 46 | N 33 25 14 | 5610 MHz  | 1024                         | 64                                |
| CO    | DENVER          | W 104 31 35 | N 39 43 39 | 5615 MHz  | 5643                         | 64                                |
| FL    | FT LAUDERDALE   | W 080 20 39 | N 26 08 36 | 5645 MHz  | 7                            | 113                               |
| FL    | MIAMI           | W 080 29 28 | N 25 45 27 | 5605 MHz  | 10                           | 113                               |
| FL    | ORLANDO         | W 081 19 33 | N 28 20 37 | 5640 MHz  | 72                           | 97                                |
| FL    | TAMPA           | W 082 31 04 | N 27 51 35 | 5620 MHz  | 14                           | 80                                |
| FL    | WEST PALM BEACH | W 080 16 23 | N 26 41 17 | 5615 MHz  | 20                           | 113                               |
| GA    | ATLANTA         | W 084 15 44 | N 33 38 48 | 5615 MHz  | 962                          | 113                               |
| IL    | MCCOOK          | W 087 51 31 | N 41 47 50 | 5615 MHz  | 646                          | 97                                |
| IL    | CRESTWOOD       | W 087 43 47 | N 41 39 05 | 5645 MHz  | 663                          | 113                               |

**Table 24: FCC: TDWR System Locations**

| STATE | CITY                    | LONGITUDE   | LATITUDE   | FREQUENCY | TERRAIN ELEVATION (MSL) [ft] | ANTENNA HEIGHT ABOVE TERRAIN [ft] |
|-------|-------------------------|-------------|------------|-----------|------------------------------|-----------------------------------|
| 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<br>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<br>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<br>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<br>#1    | W 097 37 31 | N 35 24 19 | 5610 MHz  | 1285                         | 80                                |
| OK    | AERO. CTR TDWR<br>#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                                |
| TX    | HOUSTON<br>INTERCNTL    | 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](http://www.wispa.org/?page_id=2341)

## Industry Canada Notices: Deployment in Canada:

The RDL-3000-RMA has been designed to operate with an antenna having a maximum gain of 19 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 licence-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.

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 25: IC: Recommended Safe Distances |            |                           |
|--|------------|---------------------------|
| Frequency (GHz)                          | Deployment | Separation Distance       |
| 4900                                     | PMP        | 120 cm (47.25 in) or more |
| 5300                                     | PMP        | 20 cm (7.8 in) or more    |
| 5400                                     | PMP        | 20 cm (7.8 in) or more    |
| 5800                                     | PMP        | 20 cm (7.8 in) 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.

## Déploiement aux le Canada

Le RDL-3000-RMA a été conçu pour fonctionner avec une antenne ayant un gain maximal de 19 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 choisis tel que la Puissance Isotrope Rayonnée Equivalente (PIRE) ne dépasse pas le niveau nécessaire pour une communication efficace.

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:

1. Le modèle RDL-3000 et son antenne doivent être installés 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:

| <b>Table 26: Avis - IC RF Distances de séparation sécuritaire recommandées</b> |                    |                               |
|--|--------------------|-------------------------------|
| <b>Fréquence (GHz)</b>   | <b>Déploiement</b> | <b>Distance de Séparation</b> |
| 4.9  | PMP                | 120 cm (47.25 in) ou plus     |
| 5.3  | PMP                | 20 cm (8 in) ou plus          |
| 5.4  | PMP                | 20 cm (8 in) ou plus          |
| 5.8  | PMP                | 20 cm (8 in) 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-localisé avec une autre antenne ou transmetteur.



**302 Town Centre • Markham, Ontario • Canada • L3R 0E8**

[www.rdlcom.com](http://www.rdlcom.com)