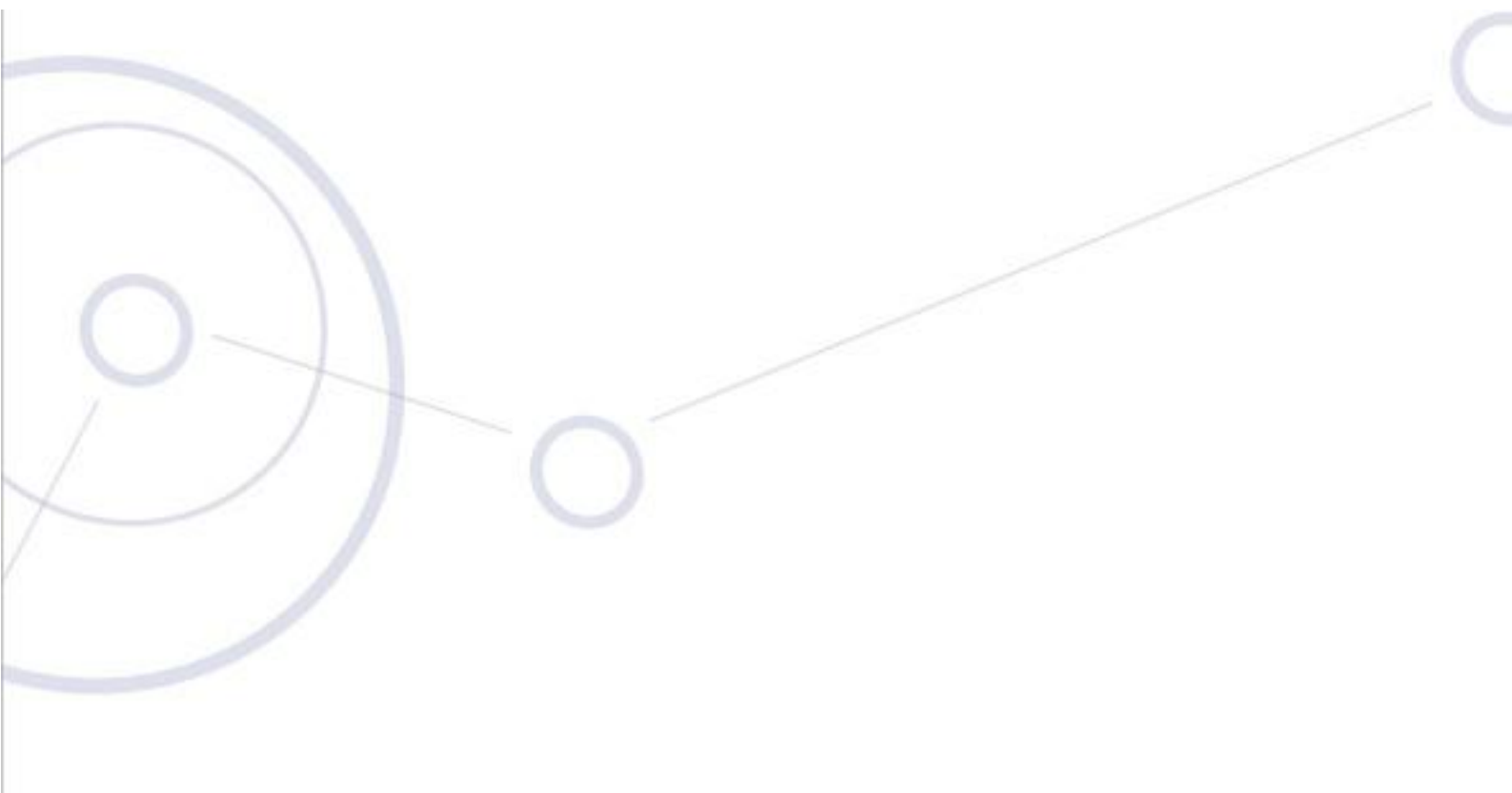


RADWIN

RADWIN 2000 JET,
RADWIN 5000 JET

3.x GHz Integrated Smart Antenna Outdoor
Radio Device

REFERENCE GUIDE



Regulatory Compliance

FCC/IC - Compliance

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 and IC RSS standards. 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.

RADWIN Ltd. is not responsible for any radio or communication interference caused by using other than specified or recommended cables and battery or by unauthorized changes or modifications to this equipment. Changes or modifications or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.



Warning

It is the responsibility of the installer to ensure that when using the outdoor antenna kits, only those antennas certified with the product are used. The use of any antenna other than those certified with the product is expressly forbidden by FCC rules 47 CFR part 15.204 and IC RSS standards.



Avertissement

Il est de la responsabilité de l'installateur de s'assurer que lorsque vous utilisez les kits d'antennes extérieures, seules les antennes certifiées avec le produit sont utilisés. L'utilisation d'une antenne autre que ceux qui sont certifiées avec le produit est expressément interdite par la réglementation FCC partie 47 CFR 15.204 et IC normes RSS.



Caution

Outdoor units and antennas should be installed ONLY by experienced installation professionals who are familiar with local building and safety codes and, wherever applicable, are licensed by the appropriate government regulatory authorities. Failure to do so may void the product warranty and may expose the end user or the service provider to legal and financial liabilities. Resellers or distributors of this equipment are not liable for injury, damage or violation of regulations associated with the installation of outdoor units or antennas. The installer should configure the output power level of antennas according to country regulations and antenna type.



Prudence

Les unités extérieures et les antennes doivent être installés que par des professionnels expérimentés d'installation qui sont familiers avec les normes locales et les codes de sécurité et, si applicable, sont agréées par les autorités gouvernementales de réglementation compétents. Ne pas le faire peut annuler la garantie du produit et peuvent exposer l'utilisateur final ou le fournisseur de services d'obligations juridiques et financiers. Revendeurs ou distributeurs de ces équipements ne sont pas responsables des blessures, des dommages ou violation des règlements liés à l'installation des unités extérieures ou des antennes. L'installateur doit configurer le niveau de puissance de sortie des antennes conformément aux réglementations nationales et le type d'antenne.



Warning

This equipment should be installed and operated with a minimum distance of 53.6cm between the radiator and your body when operating in the 3.65-3.70 GHz band.



Avertissement

Cet équipement doit être installé et utilisé à une distance minimale de 53.6cm entre le radiateur et votre corps lors d'opérations dans la bande de 3.65 à 3.7 GHz



Warning

The device is granted to operate under FCC/IC certification in the 3.65-3.70 GHz band only.

This device complies with Part 15 of the FCC rules and with Industry Canada license-exempt RSS standard(s). 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.

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.

This Class B digital apparatus complies with Canadian ICES-003.

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

Overview

The RADWIN 2000 JET, RADWIN 5000 JET 3.x GHz is an Integrated Smart Antenna Outdoor Radio Device operating in the 3.65-3.70 GHz frequency band. It is a TDD OFDM radio supporting 5 MHz, 10 MHz, 20 MHz and 40 MHz channel bandwidths.

The RADWIN 2000 JET, RADWIN 5000 JET incorporates an integrated phase array cross-polarized active antenna that supports 2x2 and 3x3 MIMO configuration modes. The antenna is software configurable to operate in 2x2 or 3x3 MIMO modes.

The RADWIN 2000 JET, RADWIN 5000 JET also supports software configurable capabilities for PtP and PtMP deployment architecture.

The RADWIN 2000 JET model indicates PtP software configuration device.

The RADWIN 5000 JET model indicates PtMP software configuration device.

The device is certified under the FCC ID: Q3K-BSA3XS and IC: 5100A-BSA3XS

Condition of Use

The RADWIN 2000 JET, RADWIN 5000 JET is a RADWIN proprietary outdoor radio device. The device is manufactured and assembled by RADWIN or its subcontractors. The device is not for sale to the general public.

FCC rules and IC Regulation Restrictions

The ODU firmware is factory programmed to operate under the FCC rules and Industry Canada regulation restrictions. The firmware is locked and inaccessible by any third party. As a result of the above the user interface allows both the installer and the user to control the ODU only within the boundaries of the regional restrictions.

Antenna

The RADWIN 2000 JET, RADWIN 5000 JET is certified with a proprietary RADWIN manufactured integrated 3.x GHz Smart antenna type covering both Point-to-Point and Point-to-Multipoint configurations. It supports 2x2 and 3x3 MIMO and is the only antenna to be incorporated and marketed with the device.

Maximum Output Power

3650 – 3700 MHz band - FCC/IC

The maximum EIRP must be set as follows, when operating in the 3.65 - 3.70 GHz band, under FCC and IC regulations.

2x2 Configuration

Channel BW (MHz)	Center Freq. Range (MHz)	Max EIRP (dBm)
5	3652.5 – 3697	35.0
10	3655 – 3695	38.0
20	3661 – 3689	42.0
40	3675	43.0

3x3 Configuration

Channel BW (MHz)	Center Freq. Range (MHz)	Max EIRP (dBm)
5	3652.5 – 3697	36.0
10	3655 – 3695	39.0
20	3661 – 3689	42.0
40	3675	43.0

Radiation Exposure Evaluation

RADWIN 2000 JET and RADWIN 5000 3.x GHz systems - the calculated recommended safe distance at density of $1\text{mW}/\text{cm}^2$ is 53.6cm.