



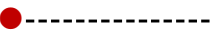






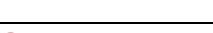

Quick-Start Guide: r|r Track Box


This Quick-Start Guide does **not** replace the official documentation.

For more information watch the instructional videos posted on our  **YouTube** channel.

1. Configure APN, SIM-PIN and CustomerID with the Tag Tool and a r|r Management Box
2. Insert the SIM-Cards into each Track Box using a **4mm** hex key. (do not lose the O-rings; do not overtighten)
3. Set up Track Boxes along the track:
 - a. Spacing: min 500m between Track Boxes and different parts of the track
 - b. Use strategic locations like corners at elevated positions; Point antenna straight up
 - c. Be aware that Track Boxes close to the start and finish will produce significant amounts of data
4. Activating the Transponders
 - a. The tracking mode in the Active Transponders V2 is activated with a Management Box set to TRACK -> START
CAUTION: - when activating on track use min. 60cm wide loop and 100% Loop power
 - Choose a **different** channel for Tracking and Timing (failing to do this will result in no timing)
 - b. Keep at least 20m between Timing and Tracking Activation Loops
 - c. Transponders will auto shutoff the Tracking Mode after 3h not "seeing" a Track Box and need to pass a timing Loop at least every 12h --- this is to preserve battery in case of accidental activation or if Tracking Mode was not shut off.
 - d. To actively shut off the Tracking Mode set the Management Box to TRACK -> STOP

LED

	< 20s -> Firmware upgrade in > 20s -> Fatal Hardware ERROR
	SIM Card error
	no gps, but network
	gps, but no network
	no gps, no network
	no gps, but network available receiving track pings
	no gps, no network receiving track pings
	gps and network ok
	gps and network ok receiving track pings
	Charging: battery full
	Charging: battery charging

- **CAUTION:** contains strong magnets
- 2G/3G Module (2G not available in the US)
 - ~3MB / 24h and 1000 Trackpings
- GPS+Glonass
- 395g
- 50 m - 500 m radius
- IP64 protection class
- Battery: LiPo, 4,000mAh, 3.70V (IATA MSDS available)
 - 1 day moving
 - 3 days stationary
- Charge Current:
 - 230mA @ 15V (quick charge 5h)
 - 150mA @ 12V (slow charge = 10h)
- Sim-Card format:  Mini-SIM-Card 2FF

Track Box

Model : RR05

IC : 20465-RR05

FCC : SZO-RR05

Input : 10-15V, 500mA



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation. To satisfy FCC RF exposure requirements a separation distance of 40 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at closer distances than this are not recommended.

This radio transmitter model RR05 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Ce modèle d'émetteur radio RR05 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous avec le gain maximal admissible indiqué. Les types d'antennes non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil. Antenna/Antenne: Laird Technologies RD2458-5, Gain 3.0 dBi

To satisfy ISED RF exposure requirements a separation distance of 40 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at closer distances than this are not recommended. Pour satisfaire aux exigences d'exposition RF de l'ISDE, une distance de séparation de 40 cm ou plus doit être maintenue entre l'antenne de cet appareil et les personnes pendant le fonctionnement. Pour assurer la conformité, les opérations à plus courte distance ne sont pas recommandées.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.