



# IridiTRAK RST430

## ALERT / TRACKING / MONITORING INTERFACE

## Quick Start Guide



	ITEM	CONNECTOR	DESCRIPTION	
A	Iridium Antenna	TNC	Antenna connector for Iridium 9601 SBD module (Internal Transceiver Module)	
B	GPS Antenna	SMA	Antenna connector for super-sense GPS module	
C	Status LED	Dual Colour	Network Registration / GPS / Status LED	
D	Config port	USB	Programming & configuration port	
E	I/O Connector	10 Pins	10 pins - Input & Output pluggable connector	
F	Pin 1	Screw Terminal	Power V- (GND)	
G	Pin 2	Screw Terminal	Power V+ (+Vin)	
H	Pin 3	Screw Terminal	Master On/Off Input. If not using, Wire-link to +Vin to remain ON	
I	Pin 4	Screw Terminal	Ignition Sense Input. Use to determine when to Sleep. If not using, Wire-link to +Vin to remain awake.	
J	Pin 5	Screw Terminal	Loop A In	NORMALLY CLOSED loop, connect to an alert button / pendant system relay contacts.
K	Pin 6	Screw Terminal	Loop A Out	
L	Pin 7	Screw Terminal	Loop B In	NORMALLY CLOSED loop, connect to an alert button / pendant system relay contacts.
M	Pin 8	Screw Terminal	Loop B Out	
N	Pin 9	Screw Terminal	Alert LED Out	
O	Pin 10	Screw Terminal	Spare GND (normally used for Alert LED)	
P	Mounting Holes	4mm	Mounting holes for securing terminal	

### Thank you for purchasing BEAM IridiTRAK

This Quick Start Guide lists 4 steps to install and configure your BEAM IridiTRAK:

- 1) Connecting power loom
- 2) Connecting antennas
- 3) Powering up
- 4) Configuring IridiTRAK & testing

### Package Contents

Before you start, make sure you have all required components:

<input type="checkbox"/>	RST430 IridiTRAK Unit
<input type="checkbox"/>	Power Cable Loom
<input type="checkbox"/>	USB Configuration Cable
<input type="checkbox"/>	Installation & User Manual
<input type="checkbox"/>	Quick Start Guide

### CAUTION

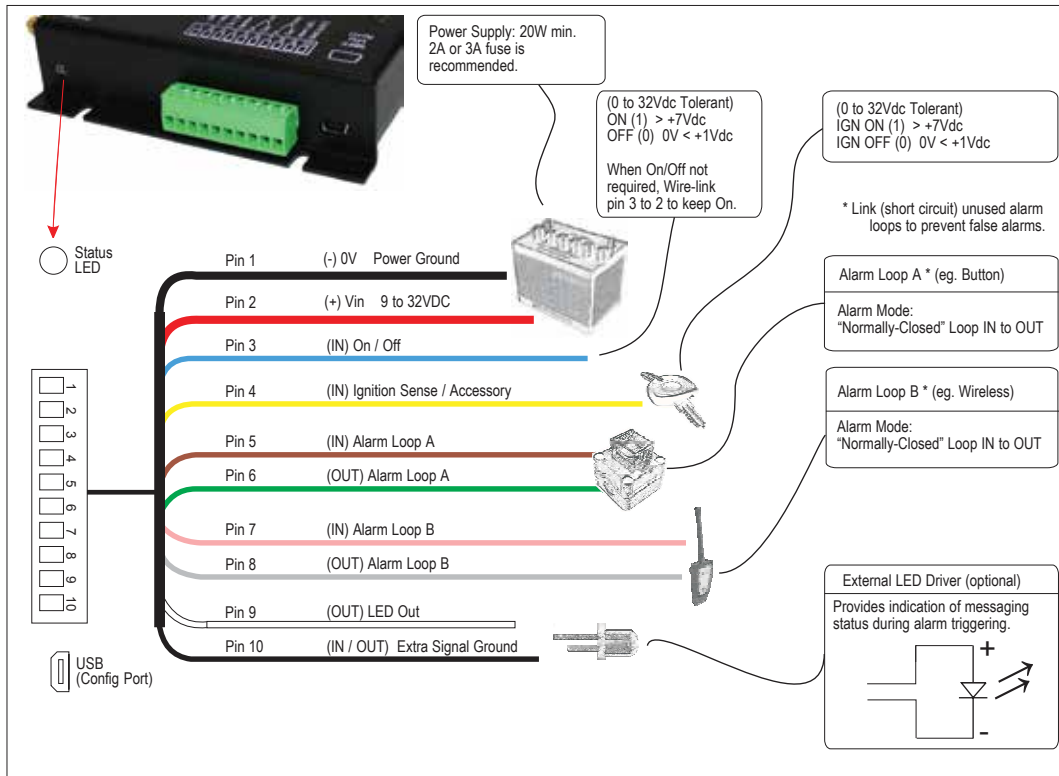
Before you install and operate your IridiTRAK, refer to the safety instructions in the Installation & User Manual"





## Setting up your BEAM IridiTRAK

### 1 IridiTRAK Wiring Diagram for Power/Inputs/Outputs & Alert Buttons



### 3 Powering Up

When all previous installation steps have been completed, confirm that the antenna(s) are connected and the power loom active. Once power is connected, the IridiTRAK LED lamp will start to operate, and the GPS, and Iridium engines will attempt to register to the service providers, and acquire lock.

#### Status LED

\*One (1) LED lamp are present on the front Face, and enabled on the IridiTRAK.

This LED displays the status of both Iridium and GPS signals, as well as system error mode, by varying the flashing and colour.

LED Status		Description
Iridium	● ○	No Signal (Flash rate: 1.5sec OFF, 1.5sec ON)
	● ○	Not registered; trying to register with Iridium network (Flash rate: 1.5sec OFF, 1.5sec ON)
	●	Registered; ready
GPS	● ○	Not locked. Trying to acquire GPS fix. (Flash rate: 1sec OFF, 0.3sec ON)
	● ○	Locked, ready (Flash rate: 1sec OFF, 0.3sec ON)
System	●	System error

In Sleep mode (power-saving) LED's will be OFF.  
With no external power, LED's will be OFF.



If any problems, try the following:

1. Repeat these instruction to ensure everything has been completed.
2. Is there power to the unit? Check all connections and fuses. If not refer to your Service Provider
3. If the antenna signal is not strong, you will need to move location to access better coverage and re-test.

For additional troubleshooting, refer to your manual or [www.beamcommunications.com](http://www.beamcommunications.com)

### 2 Connect IridiTRAK Antennas



#### Iridium Antenna

Connect "Iridium" SMA to Iridium Satellite Antenna. Refer to recommended Iridium antenna installation in "User Manual".



#### Active GPS Antenna

Connect "GPS" SMA to GPS Active Antenna

#### Antenna options include:



Dual Mode  
RST702



Dual Mode  
RST703

#### Optimizing Iridium Performance

Iridium is a line-of-sight Satellite network, conditions that can compromise the quality of the service you may receive include:

1. **Obstructions**  
Provide the best satellite view for your antenna by removing all obstructions where possible.
2. **Cabling**  
Use the shortest cable length and the fewest number of connectors on all Iridium certified antenna cable runs.
3. **RF Interference**  
Install antenna as far away from other transmitters as possible.

Antenna Options visit  
[www.beamcommunications.com](http://www.beamcommunications.com)



## 4 Install & Configure IridiTRAK



### NOTE:

1. The USB cable from the PC will supply phantom power to perform most configuration items, without the need for applying power to the “I/O” port pins. However, in this mode it will not be fully operating to send messages etc.
2. The IridiTRAK unit is pre-installed by the factory for a default mode of operation, and changes to this configuration may not be required.

### Install:

1. Download the “IridiTRAK Management System” (IMS) from <http://beamcommunications.com/ims>
2. Unzip to your hard disk then install the IMS.

### Configure:

1. Connect PC to IridiTRAK “Config” Port via USB cable (provided).
2. IridiTRAK can self-power from the USB Connection from the PC for configuration purposes.
3. Launch the “IridiTRAK Management System” (IMS) and follow instructions to configure.



USB  
Connector  
(mini-B)