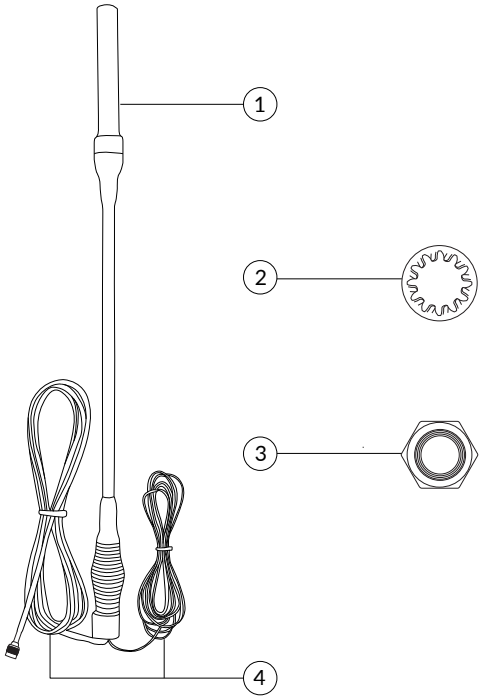
Kit Contents

1. Antenna
2. Lock Washer
3. Lock Nut
4. 5m Cable Set



Introduction

The Iridium Beam Whip Dual Mode Antenna (RST706B) is intended for Land based applications. Designed to work with Beam Iridium products and other Iridium based devices.

Iridium Whip Dual Mode Antennas (RST706B) excel in SUV/4WD/RV and Truck applications where a rugged antenna giving the highest possible clearance above the roof line is required. The antenna can be easily fitted to the bull bar of a vehicle and has 5 meters (16 ft) of cable included.

Important Safety Information

WARNING

Changes or modifications not expressly approved by Beam Communications could void the users authority to operate the equipment or the warranty.

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 and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Antenna Installation Location

The antenna should be attached in a location that provides the clearest line of site to the sky without obstruction or interference. Ideally the antenna should be fitted on the bull bar of a vehicle. Most bull bars already have a fitting and hole for this type of antenna, if not, then a suitable hole or fixing plate will be required.

PART #: USRMAN007602

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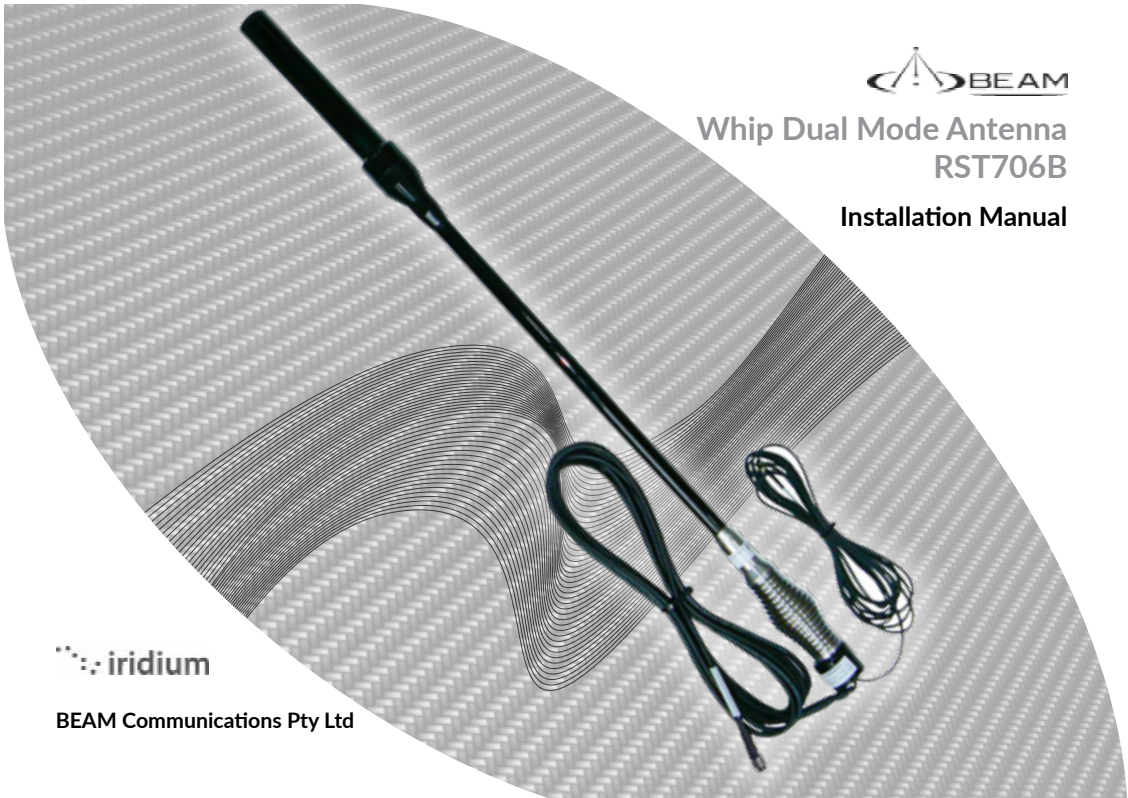
Whip Dual Mode Antenna
RST706B

Installation Manual



iridium

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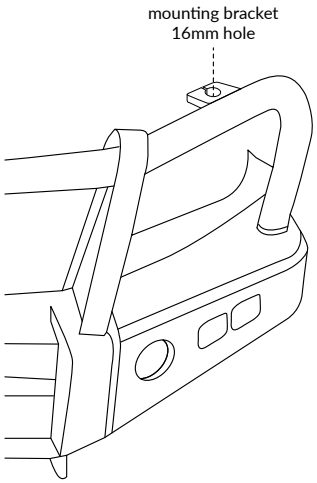
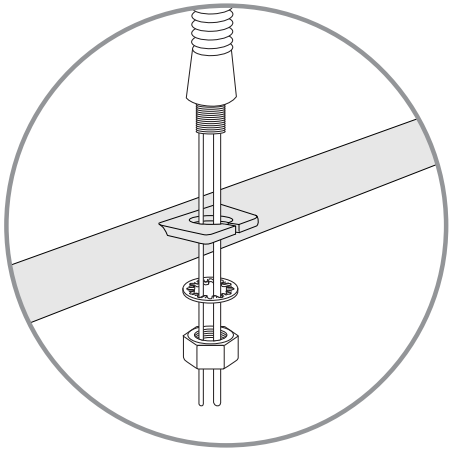
Outside/Vehicle Installation Options

1. The antenna requires a slotted 16mm diameter mounting hole in order to secure the antenna.

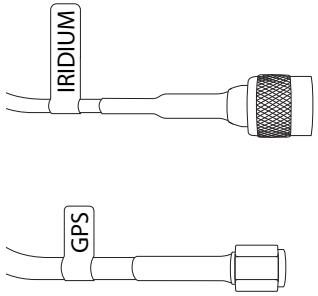
   If the vehicle does not have a slotted 16mm mounting hole, then an optional bracket may be required.



2. Feed the Satellite Cable and GPS cable through the slot and secure the antenna with the bolt and lock washer provided.

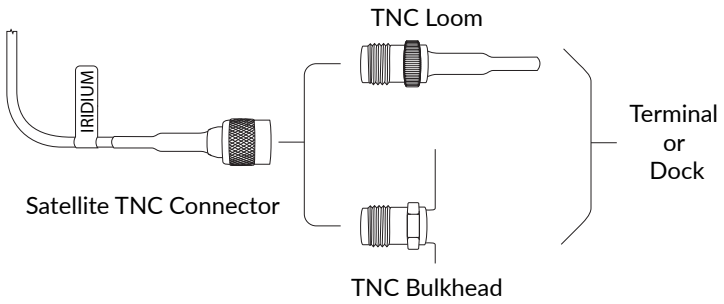


2. Run the cables through to the Beam Docking Station or Iridium handset installed inside the vehicle, be sure to secure the cables appropriately so that the cable does not rattle or cause any interference or obstruction. Be sure to waterproof the entry point of the cables into the vehicle.

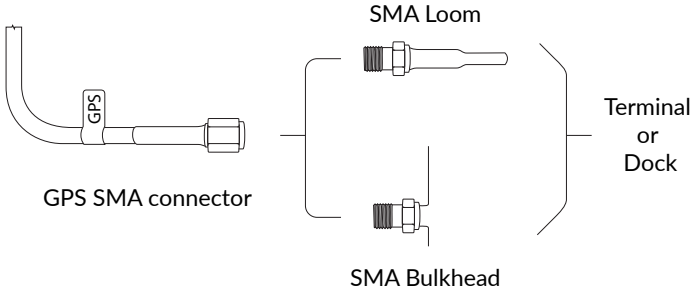


Antenna Connections

Connect the TNC adapter to the TNC connector on the loom coming from the dock or the TNC Bulkhead at the rear of the terminal.



Connect the GPS cable running from the antenna to the SMA connector on the loom coming from the dock or the SMA Bulkhead at the rear of the terminal.



Specifications

GENERAL		
Antenna	Iridium	GPS
Polarization	Right Hand Circular (RHCP)	Right Hand Circular (RHCP)
Axial Ratio	3dB at boresight	3dB
Impedance	50 Ohms	50 Ohms
VSWR	≤ 2:1	≤ 2:1
Power Handling	10 Watts	1 Watt
Amplifier Gain	5dBi	26 ± 2dB
Noise Figure		2.5dB Max
DC grounding	Yes	Yes
Cable	Includes 5m or 16.4ft of LMR240UF	Includes 5m or 16.4ft of RG316
ENVIRONMENTAL		
Temperature	Degrees °C	Degrees °F
Operating	-40 to +85	-40 to +185
PHYSICAL		
Colour	Black	
Material	Black fiberglass radome, black finish aluminium ferrules, 304 stainless steel 'barrel' spring, external coaxial cables and terminations	
Mounting requirements	Minimum M12 hole	
Dimensions	mm	inches
Antenna	800 H	31.5 H
Weight	kgs	lbs
Antenna	2.7	5.9
CONNECTORS		
Iridium	TNC Male	
GPS	SMA Male	
FREQUENCY		
Iridium	1616 – 1626 MHz	
GPS	1575 ± 10 MHz	