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Victoria, 3170, AUSTRALIA 8 Anzed Court, Mulgrave **BEAM Communications**







antenna cables will result in degraded performance and may damage the IsatPhone Pro. All antenna cables used with theses antenna must have a dB loss of 6.5dB. Failure to use Beam approved WARNING

Sourced from Inmarsat

The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. To Satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 55cm or more should be maintained between the antenna

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

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°25+ of 2°52- -2°2°C to +55°C	RATING STORAGE: OPERATIONAL:	smdO 02	RF OUTPUT IMPEDANCE
	AMBIENT TEMPERATURE	1518-1559 MHz (Inmarsat 1518-1559 MHz)	
INMARSAT TRANSMIT Amplifier: 11 dB Antenna Element Gain: 6dBi max.		(SP) ZHM S6.8821 –91.2621	RX OPERATING FREQUENCY RANGE
Inamarsat Receive: 1518-1559 MHz, Inamarsat Transmit: 1626.5-1660.5 MHz MPS Amplifier Gain: 26 dB INWARAT RECEIVE Amplifier: 26 dB		zHM 2.0331 - 2.3231	TX OPERATING FREQUENCY RANGE
Frequency Range:		Α\N	DUTY CYCLE
Manufacturer: Aeroantenna Technology, Inc. Type Drive Model: ATJ 595-83	NOITAINA DESCRIPTION	S7.5 dBm or 5.6 Watts peak (conducted)	RF OUTPUT POWER RATING (US & CANADA)
Integral	АИТЕИИА СОИИЕСТОЯ ТҮРЕ	30.0 dBm or 1.0 Watt peak (conducted)	8 SU) BNITAR ROWER RATING (US & CANADA)
WYD	*EMISSION DESIGNATION	mumixem sɔloV 22-21 DQ	POWER SUPPLY REQUIREMENT
TX Modulation: GMSK RX Modulation: OQPSK	NOITAJUGOM	[x] Commercial & Heavy Industry	INTEGRATED OPERATING ENVIRON- MENT
83.1 KHz	OCCUPIED BANDWIDTH (999%)	Mobile or Fixed Base Station	EQUIPMENTTYPE
A/N	CHANNEL SPACING	ANNETRIE + INTEGRAL ANTENNA	

ANTENNA SPECIFICATIONS

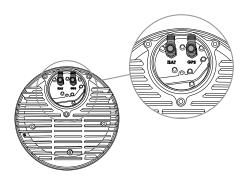


Suitable for IsatDocks

Transport Magnetic Antenna Installation Guide

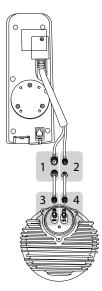
Step One:

Attach the "SMA-SMA right angled adaptors" to both the ISAT and GPS connectors on the underside of the antenna.



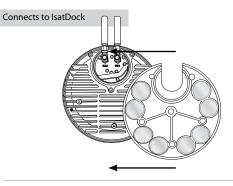
Step Two:

- Connect the antenna cable labelled "Inmarsat" to the IsatDock's TNC connector
- Connect the antenna cable labelled "GPS" to the lsatDock's SMA connector
- Connect the antenna cable labelled "Inmarsat" to the antenna connector labelled "ISAT" via the SMA connector.
- Connect the antenna cable labelled "GPS" to the antenna connector labelled "GPS" via the SMA connector



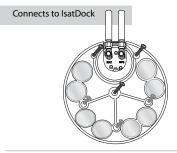
Step Three:

Place the Magnetic Mount plate on the back of the transport antenna making sure to align the screw holes.



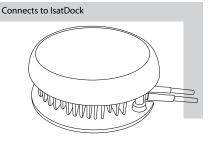
Step Four:

Use the 3 small mounting screws (with a split washer and a flat washer on each) on the lower 3 holes and the 3 large mounting screws (with a split washer and a flat washer on each) on the upper 3 holes as shown below.



Step Five

Once completed place the antenna where required.



NOTE:

For Satellite & GPS connection instructions please consult your Beam Inmarsat Product manual.

Installation Guidelines

To ensure maximum performance of the antenna system and to maximise availability and reliability of service the antenna must;

- have a clear line of site to the sky
- · be clear and free of obstructions
- · be clear of metal objects
- be located away from other transmitting devices
- · be securely affixed in location
- · not be located indoors
- be installed in conjunction with a certified cable

Installing Antenna Cables

When installing antenna cables, follow these guidelines:

- Route and restrain cables to prevent them from vibrating or moving under normal conditions, which could result in damage to the antenna or the coaxial cable connections.
- Where ever the cables contact structures, protect the cables from chafing or abrasion. If a cable needs to be bent, avoid kinking it, and ensure that each bend radius follows the cable supplier limits.
- Use coaxial sealant, shrink-wrap tubing, electrical tape, or another suitable product to seal all cable connections appropriately to prevent moisture and corrosion damage from weather exposure.

- Mount all antennas vertically and clear of nearby metal obstructions.
- Minimize horizontal obstructions as much as possible because they can create areas of poor system coverage.

Installation Options

The antenna system is suitable for marine, vehicle and fixed applications and is designed to meet Inmarsat System performance requirements when installed according to the instructions in this guide.

The following figure shows typical Installations:



The antenna must be installed without obstruction of other instruments or structures. The antenna must not be positioned within range of radar equipment or other RF interference.



WARNING

To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of **55 cm** or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Transport Magnetic Antenna Kit Contents

- 1. Transport Antenna
- 2. Magnetic Mounting Plate
- 3. 2 x SMA-SMA Right Angled Adaptors
- 4. SMA RF Connector Spanner
- 5. 3 x Small Screws
- 6. 3 x Large Screws
- 7. 6 x Small Split Washers
- 6 x Small Flat Washers

