

conjunction with any other antenna or transmitter.
The antenna used for this transmitter must be co-located in

this distance is not recommended.
device operated. To ensure combining interference, operations during maintenance between the antenna of this device and persons during devices, a separation distance of 55cm or more should be maintained between the antenna of this device and persons during this distance is not recommended.

To satisfy FCC RF exposure requirements for mobile transmitting

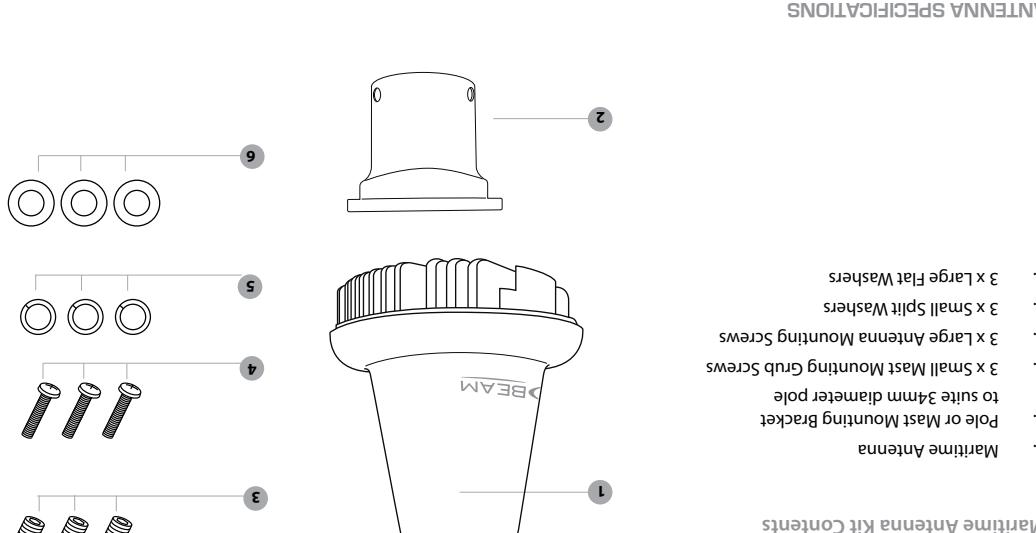
antennas used must be compliant with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING



All antenna cables used must be compliant with approved antenna cables may result in non-compliance, degraded performance and may damage the IsatPhone Pro.

ANTENNA SPECIFICATIONS	
AMPLIFIER BANDWIDTH (99%)	83.1 KHz
MODULATION	TX Modulation: GMSK RX Modulation: QPSK
EQUIPMENT TYPE	Mobile or Fixed Base Station
INTEGRATED OPERATING ENVIRONMENT	[x] Commercial [x] Light Industry & Heavy Industry
MISSION DESIGNATION*	G7W
TYPE	Integral
ANTENNA DESCRIPTION	Manufactured: Aerotenna Technology Inc.
RF INPUT POWER RATING (US & CANADA)	3.0.0 dBm or 1.0 Watt peak (conn.-ductored)
RF OUTPUT POWER RATING (US & CANADA)	37.5 dBm or 5.6 Watts peak (conn.-ductored)
DUTY CYCLE	N/A
TX OPERATING FREQUENCY RANGE	1626.5 - 1660.5 MHz
RX OPERATING FREQUENCY RANGE	1565.19 - 1585.65 MHz (GPS)
RF OUTPUT IMPEDANCE	50 Ohms
CHANNEL SPACING	N/A
AMBIENT TEMPERATURE OPERATIONAL:	-40°C to +80°C -25°C to +55°C



PART #: USRMAN006404

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BEAM Communications

GPS Amplifier Gain: 26 dB

INTEGRATOR RECEIVE AMPLIFIER: 26 dB

INTEGRATOR TRANSMIT: 1626.5-1660.5 MHz

INTEGRATOR RECEIVE: 1518-1559 MHz.

GPS 1565.19-1585.65 MHz.

Frequency Range:

Model AT 59-82

Type Marine

RF INPUT POWER RATING (US & CANADA)

3.0.0 dBm or 1.0 Watt peak (conn.-ductored)

RF OUTPUT POWER RATING (US & CANADA)

37.5 dBm or 5.6 Watts peak (conn.-ductored)

DUTY CYCLE

N/A

TX OPERATING FREQUENCY RANGE

1626.5 - 1660.5 MHz

RX OPERATING FREQUENCY RANGE

1565.19 - 1585.65 MHz (GPS)

RF OUTPUT IMPEDANCE

50 Ohms

CHANNEL SPACING

N/A

AMBIENT TEMPERATURE OPERATIONAL:

-40°C to +80°C
-25°C to +55°C



ISD710
Maritime Antenna
(Active)

Installation Guide

Suitable for IsatDocks



Step One:

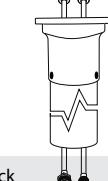
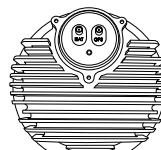
Antenna Cables to be brought to top of pole or mast



Connects to IsatDock

Step Three:

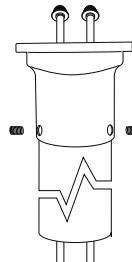
Attach both SMA connectors to the bottom of the antenna making sure to connect the GPS cable to the GPS connector and the Inmarsat Cable to the ISAT connector.



Connects to IsatDock

Step Two:

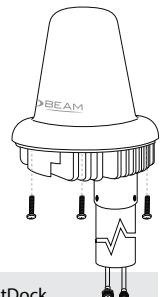
Place pole or mast mounting bracket over the top of the pole or mast and fix with 3 grub screws.



Connects to IsatDock

Step Four:

Place the antenna on top of the mast or pole and screw in the 3 mounting screws (with a split washer and a flat washer on each) to hold it into place.



Connects to IsatDock



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.



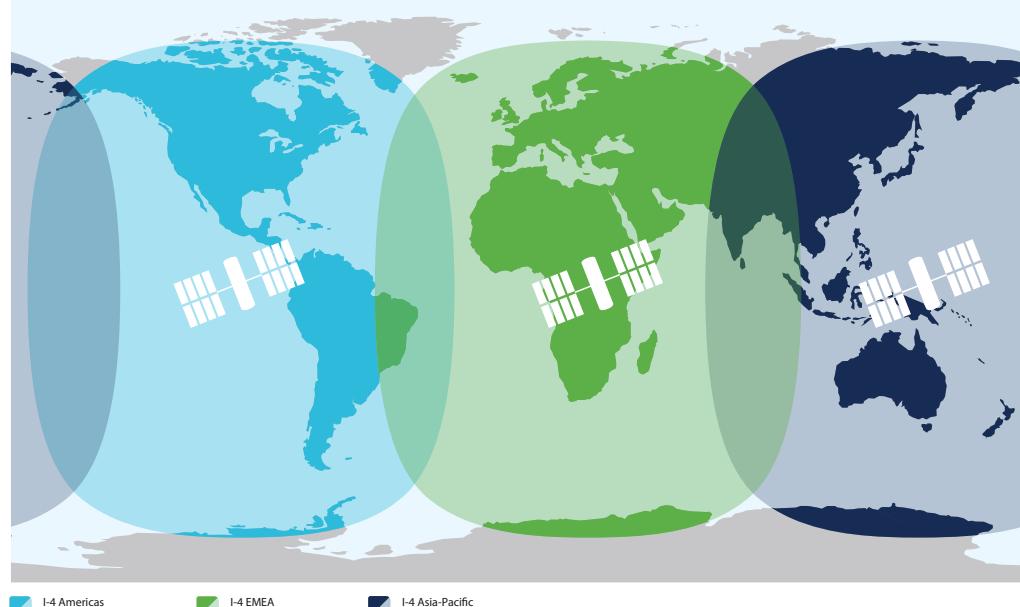
WARNING

Galvanic Corrosion Protection

This antenna has a base and pipe adapter is constructed out of aluminum. When the antenna is mounted to a steel mast or metallic bracket, a galvanic reaction can occur resulting in aluminum corrosion. To minimize corrosion the following steps can be taken:

- apply self-fusing silicone tape to all connectors
- use a UV-resistant, non metallic mast when possible
- apply silicone grease or joint compound to all metallic surfaces that make contact with the antenna or mounting adapter
- if possible use an insulating plastic or rubber sleeve between a steel mast and the aluminum adapter.

Antenna Coverage



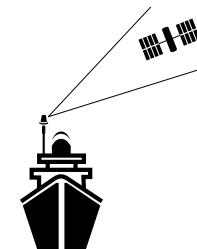
Sourced from Inmarsat

- 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.



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

WARNING: Do not place the antenna anywhere there is a source of heat or fumes such as the ship's exhaust.