

# TranSAT - RST620 Transport



## Applications

- Trucks
- Busses
- Trains
- Planes
- Helicopters
- Emergency vehicles
- Recreational vehicle
- All terrain vehicles
- Trailer & Motor homes



The TranSAT Beam Fixed Satellite Telephone provides a complete hands-free voice and telephone for a wide range of mobile and fixed site applications where easy access to reliable voice and data communications is required.

The terminal provides a compact fully functioned user handset and supports both hands-free and privacy modes of operation, automatically switching between either mode with the handset in or out of the cradle.

The system can also be used as a permanent non hands-free solution simply by not connecting the microphone. The loud ring indication through the speaker system makes it an ideal installation in a noisy environment.

The RST620 is equipped with an RS232 serial data port to access Iridium data services

## Truly Global Coverage

Iridium is the only provider of truly global satellite voice and data solutions with complete coverage of the earth. Iridium delivers essential communications services to and from remote areas where no other form of communication is available.



## HANDS FREE

Hands-free operation allows for quality integration into a vehicle with easy access to making and receiving calls in a hands-free mode. Beam Hands-free kits are full duplex and support such features as horn alert, radio mute, data connectivity and allow the use of a compact intelligent user handset for privacy.

## Basic Telephone Services

Standard telephone service features are available using the Beam RST620 including such services features as Call Forwarding, Call Barring, Voicemail, phone book and SMS

## Intelligent Handset Interface



The RST620 Fixed Satellite Telephone comes complete with an Intelligent Handset for voice calls as well as utilizing the Iridium SMS service.

The handset is compact and includes an inbuilt ring alert as well as providing for private conversations in place of hands-free mode.

The easy menu system allows you to access all the phones features and settings.

## Communication System Integration

The Hands-free Interface can be easily integrated to a communication system that may be installed within a transport vehicle, such as those found on board trains, busses and heavy machinery.

Using the Audio and Microphone outputs from the main interface and integrating them to an on-board communication system enables a conversation to be easily made from within the vehicle using existing communication equipment.

## DATA/ INTERNET/ SMS/ FAX

Using Iridium Data Services you now have access to the world from anywhere on earth. The complete range of Iridium data services allows you to simply and conveniently gain access to Internet, Email, and corporate LAN.

The terminal also supports SMS and the following Iridium Data Services;

- Circuit Switched Data
- Direct Internet
- RUDICS
- Short Burst Data

## Power Inputs

The RST620 terminal supports a 11-32V DC power input and the terminal is capable of being wired to an auxiliary/accessory power supply as well as constant power. The unit is also equipped with some intelligent power off features that delay power off functionality after the ignition is turned off. There is also the option powering up the unit on accessory power in emergency applications.

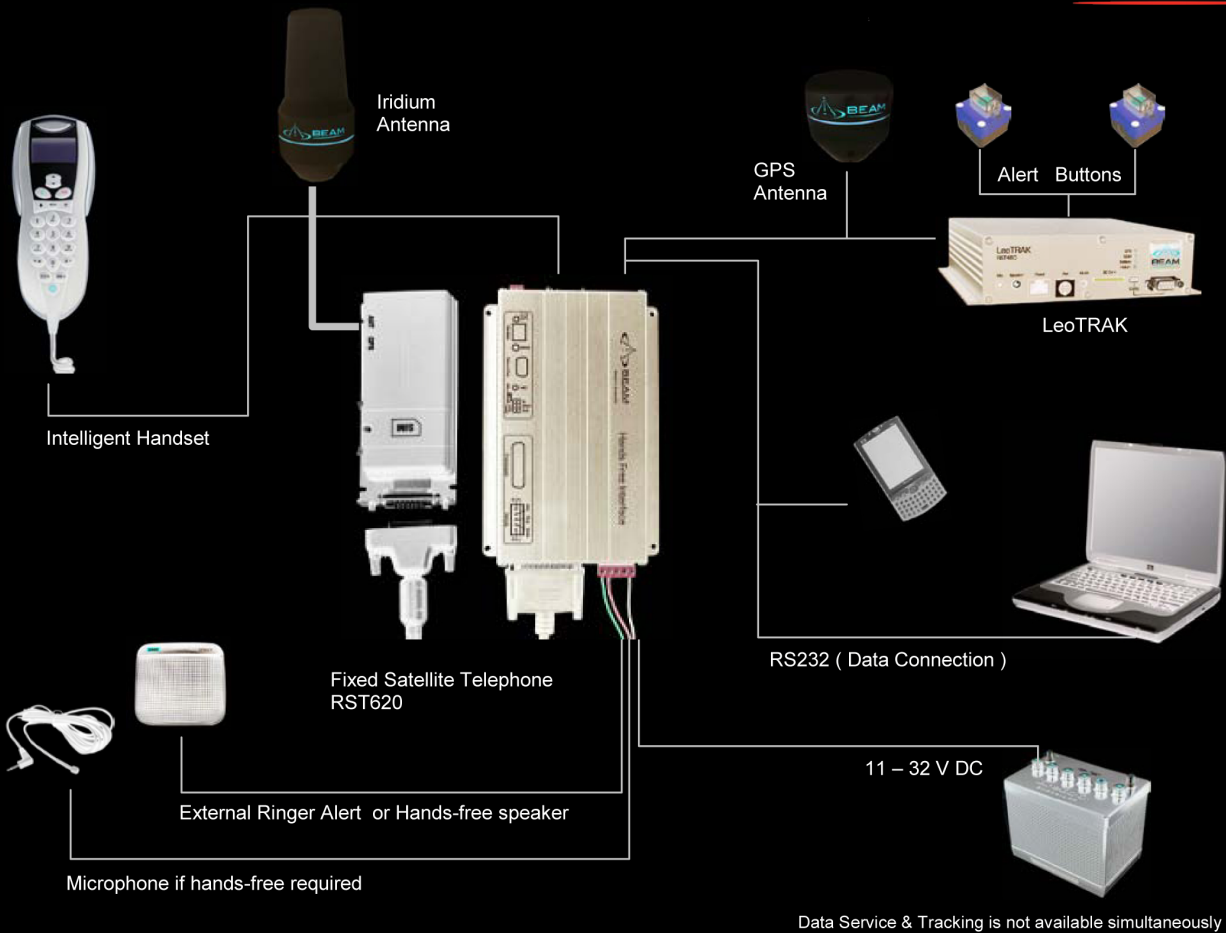
## Network Access Features

- Global coverage - pole to pole
- Low cost airtime rates
- Support all data services
- Support all Voice services

## Terminal Features

- Voice/Data/Internet/SMS
- Iridium 95522B Satellite Interface
- Compact intelligent handset
- Sturdy hang-up cradle
- Compact Installation
- Convenient serial data port
- Private or Hands-free mode
- Echo Cancellation
- Superior voice quality
- 11-32V DC power input
- SMS / SMSMO
- Optional Tracking & Monitoring Capable
- Intelligent Processor & Interface
- Support external ringer/light
- Auxiliary & constant power
- Fully Certified - RoHS
- Easy to install

# Installation Options



## Technical Specifications

### Iridium Network

L-Band 9522B transceiver frequency	1616 - 1625 MHz
Compressed Data	2.4 kbps
Voice / data modulation	10 - 12 kbps

### RST620 - Fixed Satellite Telephone

#### Power Specifications

Power input voltage	11 - 32 V DC	
Power Consumption ( AMPS )	12 V DC	24 V DC
Stand-by - inc handset	0.33	0.14
Transmit - inc handset	0.63	0.23

#### Environment Specifications

Temperature	Degrees °C	Degrees °F
Operating Range	-15 to +55	+5 to +131
Storage	-30 to +70	-22 to 158
Humidity	85% non condensing	

#### Connectors / Interfaces / LEDS

Transceiver	D25
Intelligent Handset	RJ45 DPL BUS
Data Port	RS232 Serial Interface
Speaker	3.5mm mono
Microphone	2.5mm mono

#### Kit Contents

Iridium 9522B Transceiver module Main terminal
Iridium Intelligent Handset
Hands-free & power interface
Cable assemblies: DC cables, interface cables
Mounting adhesive / velcro
Data Cable
User & Installation Manual
CD - Beam Management System, AT Commands, Manuals

### Satellite Constellation

Intersatellite Links	23.18-23.38 GHz, Ka-band
Ground Segment Links	
Downlinks	19.4-19.6 GHz, Ka-band
Uplinks	29.1-29.3 GHz, Ka-band

#### Physical Specifications

	LBT	Interface	Packed
Dimensions - mm	162x 81 x28	183x130x27	400 x 325 x 90
Dimensions - inches	6.38 x 3.16 x 1.10	7.2x5.1x1.0	15.7 x 12.8 x 3.5
Weight - kg	0.420	0.3	1.6
Weight - lbs	.926	0.66	3.52

#### Certifications

IEC60945	
Electrical Safety	EMC Compliance
HFI - AS/NZ 4601 : 1999 - 3.3.2 / 3.3.4 & 3.3.5	

#### -Temperature / Humidity / Impact / Vibration / Accelerated Aging

Independent Aeronautical certification **MUST** be gained prior to installation

#### Connectors / Interfaces / LEDS

Constant power	Screw connector
Auxiliary power	Screw connector
Horn Alert	Screw connector
Audio mute	Screw connector

#### Accessories

RST710 Mast Antenna
RST714 WHIP Antenna including 5m cable
RST932 6m Iridium antenna cable
RST933 12m Iridium Antenna cable
RST430 IridiTRAK GPS / SBD Tracking hardware
RST972S 15m Intelligent Handset extension cable
RST949 Intelligent Handset Amplification cable – Increases ring volume for noisy environments