

Product Installations

Fixed Vehicle Telephone Installation

RST620

There are several installation options available for the RST620 Depending on the application and the types of Voice and Data services require the following outlines some of the installation options available.

Fixed / Permanent Installation

In-vehicle Telephone:

The Beam Fixed Telephone provides a permanent installation for any type of vehicle application. The transceiver unit, hands-free interface and the intelligent user interface are all compact and easy to install in a convenient secure location.

For more detailed information on the Fixed In-vehicle Telephone click here [RST620](#)

Installation Configuration



Intelligent handset

The Intelligent Handset RST970 comes complete with cradle and mounting bracket it provides flexibility to install a compact handset. The handset allows for hands-free calls and or private calls to be made by lifting the handset from the cradle. The Handset is supplied with a 5' / 1.5m cable to enable convenient installation. The cable can be extended using an approved extension cable up to 10' / 3.0m maximum.

The Intelligent handset is connected directly to the Beam Hands-free interface units RJ45 Handset connector.



Hands-free Interface:

The Hands-free Interface (HFI) included in the RST620 kit provides full duplex voice communications particularly for in-vehicle type applications. The interface accepts an 11-32V DC input and is equipped with specialised wiring features such as external horn alert, radio mute and the ability to have radio integration for audio. The kit comes complete with the RST970 Intelligent Handset user interface.

Audio Integration

The Hand-free interface allows for audio and microphone integration with some existing vehicle type audio systems such as those used in aircrafts. In most cases the communication system allows for audio / mic inputs that will then allow an integrated call to be made or received.

Data Connectivity

The RST620 is fitted with a DB9 data connector for accessing serial data services on the Iridium network. The Serial port provides a Hayes Compatible modem interface. The serial lead can be extended up to 150' / 50m if required.

Power Inputs

The Beam RST620 accepts an 11-32V DC input and therefore can be connected directly to most DC power outputs upon installation. The Optional Beam RST050 Battery Back-up can also be installed as part of the installation if required where emergency or back up power is required. The Hands-free interface also supplies 4.4VDC to the main transceiver unit.

Antenna/Cable Installation

An antenna is not supplied with the RST620 therefore an appropriate antenna should be selected for the installation along with the suitable length of cable to minimize the distance between the antenna and the unit.

The antenna cable should be within the Iridium specification, maximum 3DB loss. All Beam cable is within this standard. If a local cable supplier is being used then it is advisable to verify this specification. Any bends in the cable, extreme heat or the use of additional connectors with impact the loss of the cable and thus the performance of the terminal.

The antenna should be installed with clear line of sight to the sky; 8 degrees line of site above the horizon is ideal. Whilst clear line of site is not always possible for 360 degrees, every effort should be made to gain as clear line of sight as possible.

Connecting TrackALERT

To connect the Beam TrackALERT to the RST620 is very simple. The Beam TrackALERT will connect directly to the Beam RST620 Comm. Port. The TrackALERT interface for the RST620, RST030S or RST035S will be supplied with an additional cable and power supply to connect the 7.5VDC power to the TrackAELRT.

Once connected to the RST620 the TrackALERT can be configured for the application.

RST620 Connection Summary



1. 1 x RJ45 Socket: Connection of Intelligent Handset / Hands-free Interface
2. 1 x DB9 Serial Connector: Comm. Port for accessing Data Services
3. 1 x Screw Connection: DC Power Input 11-32VDC
4. 2 x Screw Connectors: Radio Integration / Horn Alert
5. 2 x DIN Connectors: Speaker / Mic
6. Speaker / Mic
7. 1 x TNC Connector: Iridium Antenna Connection
8. D25 Connector: cable assembly to Hands-free Interface Unit
9. Intelligent Handset