



Remote Satellite Modem

Model RST200



Maritime Communications



Asset Tracking Applications



Transport Applications

Remote Satellite Voice/Data Modem

The Beam Remote Satellite Voice/Data Modem provides remote environments with data / SCADA telecommunications access via the Iridium satellite network.

The RST200 presents a DB9 serial data socket to the user, along with visual status information. The modem can also be used with an optional Intelligent handset for voice communications.



Market Applications

The RST200 is designed for all remote communications applications for mobile or fixed use. These markets include Maritime, Transport, Defence, Emergency Services, Mining, Construction, Telemetry and Security.

Modem Emulation

The RST200 emulates the functionality of a Hayes compatible modem. It provides a socket for the subscriber to connect a conventional serial RS232 device. The user operates the connected equipment as though using a normal dial-up data service or modem connection. The RST200 provides complete support to all Iridium Voice and Data services as enabled by a certified Iridium Service Provider.

Intelligent Handset Interface

The RST200 supports the use of an optional Intelligent Handset for voice calls as well as utilizing the Iridium SMS service.

The handset has a full alpha numeric keypad as well as built in ringer and easy use menu functions and display. The handset can be easily located anywhere within a vehicle, vessel or fixed site location.



Specialised Applications

The RST200 can easily be adapted to be used in conjunction with specialised applications.

The Intelligent processor inside the RST200 enables the use of remote commands or polling to retrieve data from the Log Port of the terminal.

This functionality can be used in conjunction with SMS and or Short Burst Data (SBD) This functionality can be adapted to various applications such as polling GPS locations or taking reading from remote devices or digital inputs.

Alert / Tracking Interface

The RST200 is capable of supporting the Beam TrackALERT interface. This will support deployment for tracking, monitoring and emergency alert installations. The TrackALERT interfaces are available with inbuilt or external GPS receivers.



Ship Security Alert System (SSAS)

The RST200 when used with the TrackALERT interface is fully compliant with the Solas Regulations.

Terminal Data Services

The RST200 provides a serial interface for PC connection and two way SMS, giving the user access to the following services;

Dial-Up Data Service 2.4kbps

Direct Internet Data 10-12 Kbps

Short Message Service (SMS)

Short Burst Data (Selected Providers)

Terminal Voice Services

The Beam Remote Satellite Modem is capable of supporting all Iridium voice services. The following voice services and solutions can be easily accessed using the RST200 terminal.

Post Paid

Pre-paid

Crew Calling





RST200 Applications



Commercial Fishing



Telemetry Communications



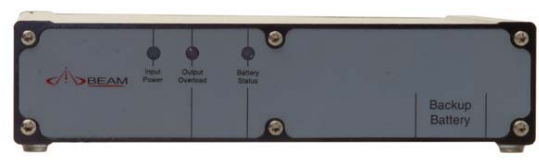
Rural Communications



Position Reporting

Power Inputs / Backup Battery

The RST200 terminal is supplied with a universal AC power supply. A readily available country specific cord is required. The unit can also be connected to an 11–32V DC power supply.



The RST200 supports the Beam Battery Backup RST050 Using the battery Backup with the RST200 will provide 48 hours of standby time and 4 hours of communications time. The terminal is also capable of being Solar Powered.

In-Vehicle Use

The Remote Satellite Modem when used in conjunction with the Intelligent handset can easily be installed into a vehicle or vessel application. The terminal will provide easy access to the compact handset whilst the main terminal can be installed in a secure / out of sight compartment.



There is also an optional In-vehicle hands-free kit available for the RST200 terminal that provides the flexibility of having a fully integrated system into any type of vehicle for safe hands-free use.

Configuration



The RST200 is installed with intelligent firmware that enables the unit to be configured either remotely using SMS or locally when connected to the log port of the terminal. This is ideal for remote parameter changes, diagnostics and configuration.

RST200 0105/2

RST200 Key Features

- Supports Intelligent Applications
- Iridium Voice & Data Services
- SMS / SMSMO
- Voice Mail
- Crew Calling
- Ship Security Alert System
- Tracking & Monitoring Capable
- Intelligent Processor & Interface
- Remote Polling of Log Port
- Polling via SMS / SBD
- Secure SIM Card Enclosure
- Supports Intelligent Handsets
- Full Diagnostic LEDs
- Remote or Local Master Reset
- Local and Remote Configuration
- External Ringer available
- Low power consumption
- Supports Back up Battery
- Supports Iridium PIN Services
- Incorporates Call Logging
- Optional In-Vehicle Hands-Free Kit
- Fully Certified

RST200 Intelligence

The Intelligent processor inside the   IEC60945 RST200 terminal enables intelligent remote data retrieval along with remote polling capabilities of the Log Port.

These features are ideal when the RST200 is deployed into remote applications working in conjunction with loggers, meters or GPS applications.

Installation

The RST200 can be deployed for various applications. Selecting an appropriate antenna and antenna cable for the installation is very important for optimum performance. Mounting brackets, configuration CD and international plug pack are all included with the terminal.





Specification Remote Satellite Modem RST200

RST200 Specifications



Mining
Applications



Oil & Gas
Applications



Pipeline
Communications

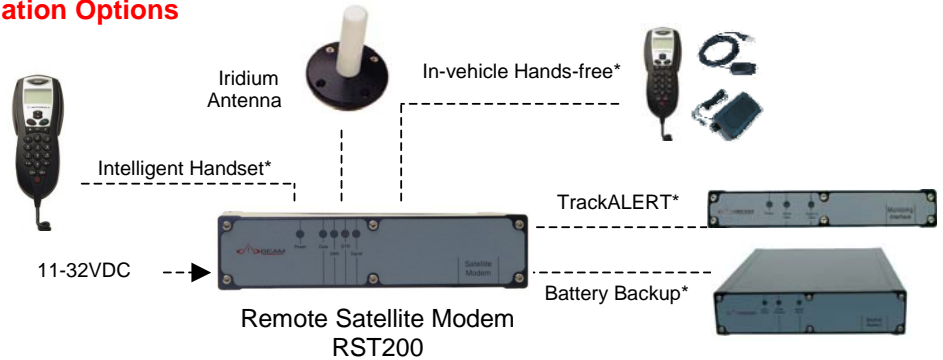


Aeronautical
Applications

Function	Description	Type	Location
Inout Power		11-32V DC Plug back	Rear Panel
Visual Indicators	Power On/Off	LED	Front Panel
	Data Passing	LED	Front Panel
	SMS Waiting	LED	Front Panel
	DTR	LED	Front Panel
	Signal Strength	LED	Front Panel
Connectors	Antenna	TNC Socket	Rear Panel
	Power	Secure screw type	Rear Panel
	Intelligent Handset	RJ45	Rear Panel
	Data	DB9 Socket	Rear Panel
	Log Port	DB9 Socket	Rear Panel

Physical		Power Consumption = Amps		
Size L x W X H	225 x 271 x 45mm	Voltage	12 Volts	24 Volts
Weight	1.5Kg	Standby	0.12A	0.06A
Shipping Weight inc	2.25Kg	Transmit	0.33A	0.15A
Operating Temperature	0C to +50C	Standby *	0.25A	0.13A
Storage Temperature	-30C to +70C	Transmit *	0.60A	0.18A
Operating Humidity	85% non-condensing	* With Intelligent Handset		

Installation Options



Optional Accessories

