DataMODEM - RST600

The Beam Data Modem is a robust data terminal providing data communications from or to anywhere on earth.

The compact module allows for a serial data connection to be made to the modem whilst also providing for an 11-32V DC power input using the power supply provided with the terminal.

Whether the application is for commercial, industrial or leisure use the reliance on quality communication services is essential to support various users and applications all over the world.

Beam provides solutions for the following key data applications;

- Telemetry
- SCADA
- Remote Reporting
- Data Exchange
- Internet / Email
- Alert Reporting
- Tracking
- Remote Management

Iridium Satellite System

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.

The Iridium system is the largest fully meshed satellite network constellation in the world and consists of 66 low-earth orbiting (LEO), cross-linked satellites and has multiple in-orbit spares.

Total Peace Of Mind

The peace of mind to be able to access communication services anywhere, anytime is what makes the Iridium suite of services so unique. These services include;

- Basic Data Communications
- Internet & Email Access
- Messaging
- Tracking & Control
- Security & Monitoring

Ease Of Use

Using a standard set of AT commands provide the user simple access to data applications using a computer or other intelligent interface to the modem, such as a logger or telemetry device.

World Internet & Data Services

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.

Iridium Prepaid Services

With Iridium prepaid services, users have a cost-effective communications system at their fingertips, eliminating the headaches of monthly bills or subscription fees. Unused minutes carry forward so your minutes can be used in future months. Prepaid SIM's are ideal for situations with one SIM and one user.

Data & Messaging Service

The Iridium SMS can send and receive messages of up to 160 alphanumeric characters, in a single message. The service operates in the same way as a generic SMS service does providing;

- Two-way global text messaging
- Send to and from other Iridium subscribers
- Send to and from cellular subscribers (Selected Providers)
- Send to and receive from email addresses.

The terminal also supports the following Iridium Data Services;

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

Network Access Features

- Global coverage – pole to pole
- Low cost airtime rates
- No regions or zones
- Pre or post paid
- Itemised billing
- Support all data services

Terminal Features

- Compact Installation
- Serial data port
- Screw type connectors
- 10-32V DC power input
- DC Convertor supplied
- SMS / SMSMO
- Complete AT Command Set
- Tracking & Monitoring Capable
- Cable assembly included
- Secure SIM enclosure
- Fully Certified
- Easy to install

Emergency Alerts

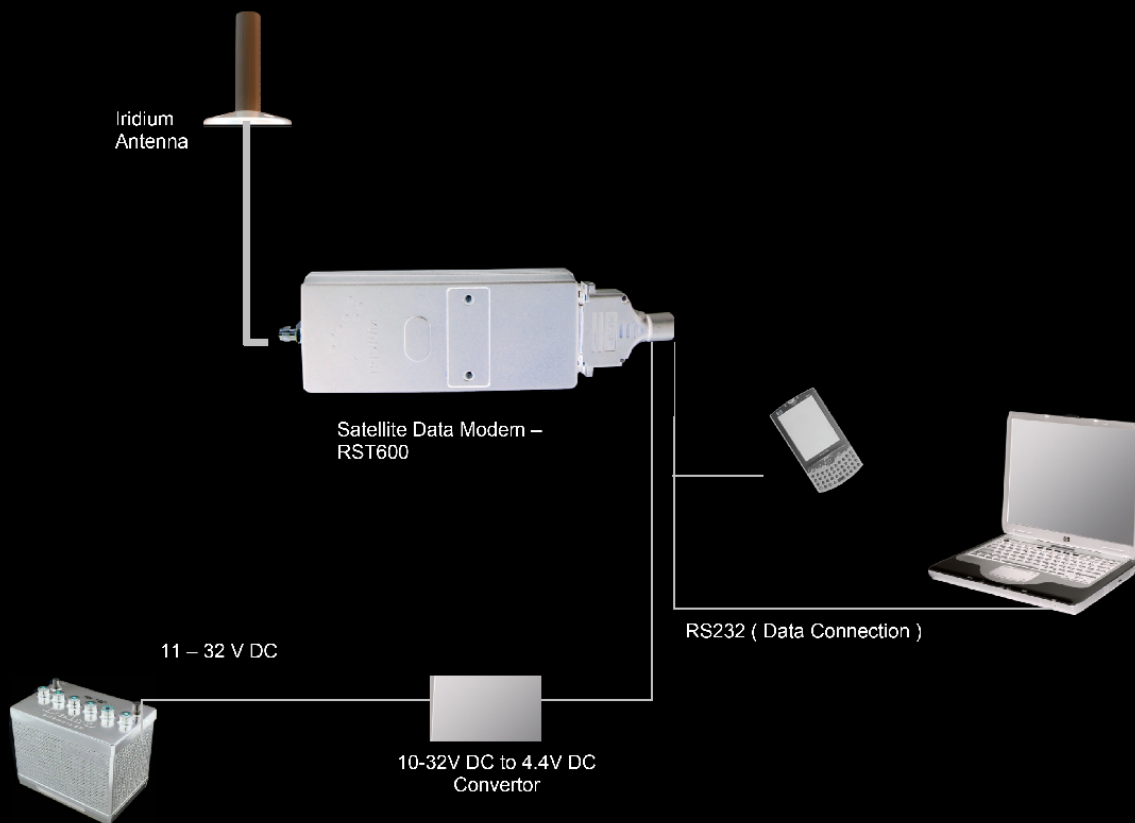It is possible to use the Beam RST600 installed in conjunction with emergency alert or monitoring systems.

The serial data interface provides the ability for an independent device to send an alert message to a control centre. These alert messages can be sent via the following methods;

- Short Message Service
- SMS to Email
- Circuit Switched Data
- Short Burst Data

Installation

The RST600 can be deployed for various applications. Selecting an appropriate antenna and antenna cable for the installation is very important for optimum performance.

Toll Free: 1 888 949 9924
Email: corporatesales@roadpost.com
Website: www.roadpost.com
www.roadpost.ca

Installation Options

Technical Specifications

Iridium Network

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

RST600 - Data Modem

Power Specifications	Direct to LBT*	Using DC-DC
Power input voltage	+4.0 VDC to +4.8	10 - 32 V DC
Power Consumption (AMPS)	4.4V DC	12v DC
Stand-by	0.12	0.08
Transmit	1.1	0.17
*LBT - Iridium L-Band transceiver		

Environment Specifications

Temperature	Degrees ˚C
Operating Range	-20 to +60
Storage	-40 to +85
Humidity	93% non condensing

Connectors / Interfaces / LEDS

Transceiver	D25
Data Port	RS232 Serial Interface
4.4V DC Input	Two-way Molex

Kit Contents

- Iridium 9522A Transceiver module Main terminal
- Cable assemblies: DC cables, interface cables
- 10-32V DC - 4.4V DC Power Supply
- Mounting adhesive / velcro
- Data Cable
- User & Installation Manual
- AT Commands, Manuals

Satellite Constellation

Inter-satellite 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	DC – DC Converter
Dimensions - mm	196.4x82.6x39	147 x 66 x 41
Dimensions - inches	7.73x3.25x3.25	5.75 x 2.7 x 1.75
Weight - kg	0.659	0.120

Certifications

- FCC,
- Electrical Safety
- EMC Compliance

Accessories

Mast mount antenna	RST910
Magnetic Mount Antenna	RST915
Bolt Mount Antenna	RST920
6 m / 18 f Antenna cable	RST932
9 m / 27 f Antenna cable	RST930
12 m / 36 f Antenna cable	RST933

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