



Remote Satellite Terminal

Model RST310



Global Communications



In building / PBX Integration



Ideal For All Remote Locations

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IntelliDOCK 9505A Docking Station

The Beam IntelliDOCK RST310 docking station provides access to intelligent communication services from a standard 9505A handheld Iridium terminal. The IntelliDOCK Remote Satellite Terminal is a highly featured communications device providing intelligent voice, data and messaging communications.



Market Applications

The RST310 is designed for all remote communications applications for mobile or fixed use. These markets include Maritime, Transport, Defence, Emergency Services, Mining, Construction, and Recreational users and the like.

RJ-11 / PSTN Emulation

The IntelliDOCK provides an intelligent RJ11/POTS interface emulating all the standard features of a PSTN (Public Telephone Service) telephone service.

The user operates the connected equipment as though using a standard telephone connection, as the unit is equipped to provide selectable line voltages and currents for ring and service tones, along with off-hook detection.

The Intelligent interface allows for easy installation providing flexibility for maximum run cable length from the RJ11 port as well as the use of cordless and corded telephone equipment.

Intelligent Handset Interface

The RJ-45 Connector enables the use of an Intelligent handset for compact convenient including built in ring alert and SMS functionality.

(Cannot be used simultaneously with RJ11 Port)

PBX / In-building Integration

The IntelliDOCK can be easily integrated into a PBX system using the RJ11 connectivity. This enables calls to be made or received from any extension within a building via the satellite network.

In-building integration is ideal for lower costs satellite to satellite calling as well as emergency backup to the PSTN networks

Alert / Tracking Interface



The RST310 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.

SMS POTS Support

The Beam Remote Satellite Terminal allows the use of an SMS POTS handset.

SMS POTS is a new feature that enables selected standard type telephone handsets to support SMS functionality previously only available on more expensive Intelligent Type handsets.



The specialised handsets connect to the RST310's RJ11 connector and enable SMS messages to be sent, received and stored in the same way as a cellular phone operates. Cordless and corded options are available.



SMS-POTS Feature only available on terminals manufactured from Feb '05

www.beamcomm.net

RST310 0105/1





Applications



Ship Security Applications



Crew Calling Photo AFM



Transport Applications

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Fixed / Mobile Applications

The IntelliDOCK can easily be adapted to be used in conjunction with specialised installations. Some of these applications include Rural Community communications, In-vehicle and away from vehicle Communications and other applications where a mix of fixed and mobile communications is required.

Voice Services

The IntelliDOCK provides access to all Iridium voice services, these services include;

- Standard RJ11 Handset Voice Calls
- Intelligent Handset Voice Calls
- Crew Calling
- Post Paid / Pre-paid Calls

Data Services

A serial interface for PC connection and two way SMS provides access to the following Iridium data services.

- Dial-Up Data Service
- Direct Internet Data 10-12 Kbps
- Short Message Service (SMS)
- Short Burst Data (Selected Providers)

In-Vehicle Use

The Beam In-vehicle Hands-free kit for the 9505A provides the flexibility of having the IntelliDOCK for fixed location use whilst having the ability to have full hands-free voice communications and data connectivity for in-vehicle requirements.



The optional In-vehicle hands-free kit for the provides the flexibility of having a fully integrated system into any type of vehicle for safe hands-free use.

Power Inputs / Backup Battery

The IntelliDOCK terminal is supplied with a universal AC power supply. The unit can also be connected directly to an 11–32V DC input.

An optional Beam Battery Backup, can provide 24 hours standby time and 2 hours of talk time. The terminal is also capable of being Solar Powered.



Configuration

The IntelliDOCK is installed with proprietary firmware that enables quality management and configuration of the terminal at anytime. The terminal is controlled using a user front end called the Beam Management System (BMS).

The terminal can be configured either locally using the BMS or remotely using SMS commands. This is ideal for remote parameter changes, diagnostics and configuration.

The unit is supplied with generic international defaults, however many of the parameters can be configured for local or specialised customisation.

Phone Number Processing

The RJ11 port is capable of being programmed to pre-empt such dialing codes as the international access of "00" country codes and or area codes.

The intelligent number processing is ideal for various applications to enable ease use by any user. It is also possible to enable the programming of direct Emergency Number Numbers and short code voicemail box numbers as required.





Installation



Mining Applications



Oil & Gas Applications



Pipeline Communications

Installation

The RST310 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 a 110/240 AC/DC plug pack is included with the terminal.

The RST310 provides great flexibility for various installations. The RJ11 socket will support 3 REN, which allows long distances of standard telephone wire to be run. This minimizes the need for long antenna cable runs in most installations.

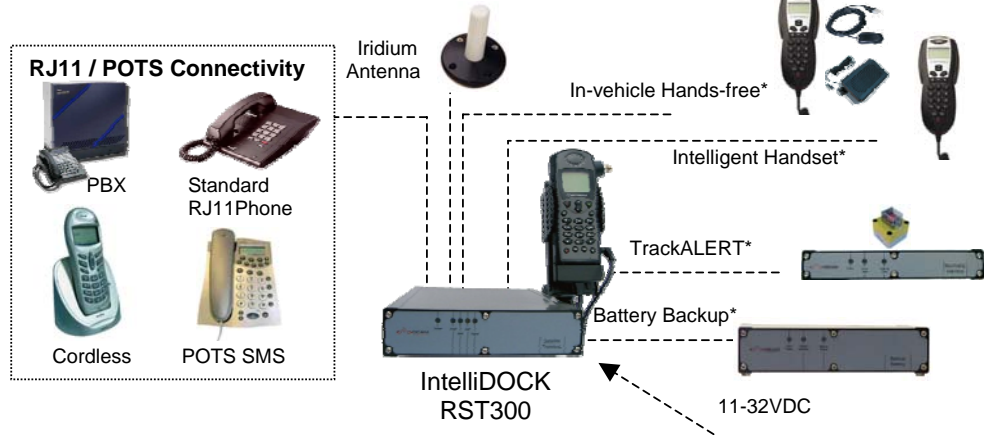
When using the Intelligent handset consideration must be given to the proximity to the terminal as this distance is limited to the handset cable length.

Key Features

- Connect to PBX / Standard Phones
- Iridium Voice & Data Services
- SMS / SMSMO
- SMS POTS Capable
- Voice Mail
- Crew Calling
- Ship Security Alert System, Capable
- Tracking & Monitoring Capable
- Intelligent Processor & Interface
- Phone Number Processing
- Line Reversal for Pay phone use
- Secure SIM Card Enclosure
- Supports Intelligent Handsets
- Remote or Local Master Reset
- Local and Remote Configuration
- External Ringer available
- Supports Back up Battery / Solar
- Incorporates Call Logging
- Optional In-Vehicle Hands-Free Kit
- Fully Certified



Installation Options



*Denotes Optional Accessories Available

Specific Accessories





Specification 9505A IntelliDOCK RST310

Specifications



Fixed Applications



Line Reversal Supported



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Function	Description	Type	Location
REN supported		3	
RJ11 Line Voltage		48V	
Input Power		11-32V DC Plug pack	
Tones	Ring & Busy	Configurable	
	Low Signal	Configurable	
	V'mail / SMS Waiting	Configurable	
Visual Indicators	Power On/Off	LED	Front Panel
	Signal Strength	LED	Front Panel
	Call in Progress	LED	Front Panel
	SMS waiting	LED	Front Panel
	V'mail (Select Carriers)	LED	Front Panel
Connectors	9505A	DB25	Rear Panel
	Power	Secure, screw type	Rear Panel
	Telephone	RJ11	Rear Panel
	Telephone/Accessory	RJ11	Rear Panel
	Intelligent Handset	RJ45	Rear Panel
	Data	DB9 Socket	Rear Panel
	Log Port	DB9 Socket	Rear Panel

Physical	
Size L x W x H	225 x 271 x 45mm
Weight	1.2Kg
Shipping Weight	2.25Kg
Operating Temperature	0C to +50C
Storage Temperature	-30C to +70C
Operating Humidity	85% non-condensing

Power Consumption = Amps		
Voltage	12 Volts	24 Volts
Standby	0.35A	0.16A
Transmit	0.51A	0.25A
Standby *	0.47A	0.22A
Transmit *	0.59A	0.295A
* With Intelligent Handset		

Additional Optional Accessories



Mast Antenna
RST910



Bolt Antenna
RST920



12M / 36' Antenna
Cables RST 933



9M / 27' Antenna
Cables RST 930



Extension Ringer
RST952



Magnetic Antenna
RST915



3m / 9' Antenna
Cable RST931



6m / 18' Antenna
Cable RST932

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