High Performance Tracking

SRF Series

DESCRIPTION

The RTS SRF Series is a short range radio frequency identification (RFID) system allowing mobile tags to communicate with fixed tag readers, either as a standalone tracking system or as a component of a multi-technology hybrid local and remote tracking framework. Using short range radio technology to communicate the position of people, vehicles, and other assets within 600 feet of a reader, the system is well suited for purposes of validation, access, duress signaling, mustering, and asset tracking.

Transmission between the tag and reader is encrypted and includes device information in serial ASCII and 26 bit Wiegand formats and battery life information. Also, the system can monitor tags traveling at speeds up to 300 miles per hour. Available options include built-in tamper switch and motion detection, and the option of built in credential chips, including HID Prox, iClass, MIFARE, and DESFire.

The SRF series has the ability to interface with an RTS long range frequency tracking system via a local serial interface to an RF-series base transceiver or via incorporation into remote RF tracking units having the ability themselves to communicate via radio to the RF base transceiver. Alternately, readers may interface via a network interface with an RTS vMonitor Gateway which in turn communicate with a Command and Control System (CCS). The CCS integrates the tracking data with data from RF series and GSM series devices with data from Google Earth and Google Maps to display real-time tracking unit location and status data using vMonitor software. This provides the opportunity to provide a comprehensive picture of an organization's people and assets, regardless of location.

Vehicle/Asset Tag Reader

Personnel Tag

Tag Reader

Tag Reader

FEATURES

- Suitable for validation, access, duress signaling, mustering, asset tracking.
- Reports to readers via short range radio
- Encrypted communications
- Specific solutions for personnel, vehicles assets
- Command and control display interface
- Integrates with RTS RF and GSM solutions
- Third party integration options

BENEFITS

- Multi-purpose system
- License free, easily deployed
- Secure information transfer
- Application-based solution
- Graphical visibility of location of remote units
- Comprehensive family of tracking solutions
- PSIM integration

SPECIFICATIONS

GENERAL RADIO SPECIFICATIONS

Frequency	433.92 MHz
Output Power	<300 microWatts ERP (Effective Radiated Power

TAG READER

Antenna	Omni-directional (directional optional) (BNC Female connector)
Read Range	1 - 600 feet (Adjustable)
Local interfaces	
SRF-RDR-232	RS-232 (9-pin D-shell)
SRF-RDR-TCP	Ethernet (RJ-45)
Input power	8.5 - 24 VDC
Current Draw	60 mA maximum
Dimensions	4.3 in. x 2.5 in. x .9 in (110 mm x 63 mm x 22 mm)
Weight	1.2 ounces (35 g)
Operating temperature	-40 ° C - +70 ° C

TAG UNITS

Battery	
Type	Sealed lithium (internal)
Life	> 5 years
DataSerial	ASCII, 26 bit Wiegand
Available credentials	iClass, MIFARE, DESFire
Operating temperature	-40° C - +60° C
Compliance	FCC Part 15, Class A

Personnel Tag

Transmission Range	2 - 600 feet (Adjustable)
Dimensions	3.3 in. x 2.2 in. x .3 in (58 mm x 38 mm x 13 mm)
Weight	.9 ounces (26 g)

Vehicle/Asset Tag

Transmission Range	1 - 600 feet (Adjustable)
Dimensions	2.3 in. x 1.5 in. x .5 in (58 mm x 38 mm x 13 mm)
Weight	.7 ounces (20 g)

ORDERING INFORMATION

Product	Part #	Description	Notes
Tag Reader	SRF-RDR-232	Tag Reader with RS-232 Interface	(1) (2)
	SRF-RDR-TCP	Tag Reader with Ethernet Interface	(1) (2)
Tags	SRF-PT	Personnel Tag	(3)(4)(5)
	SRF-VAT	Vehicle/Asset Tag	(4)
vGateway Server	RTS-VGW	Middleware hosted on Dedicated Linux Server with full database.	(6)
vMonitor Software	RTS-VMON	Geo-spatial graphing and display software	

NOTES:
(1) Portable reader available. Contact factory for details.
(2) Other antenna styles available. Contact factory for details.
(3) Duress tag option. Add "-DRS".
(4) Tamper switch option. add "-TS"

(5) Other tag styles available. Contact factory for details.
(6) Can be implemented on virtual server through VMWare. Contact factory for details.