High Performance Tracking

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.

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

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.
SPECIFICATIONS

GENERAL RADIO SPECIFICATIONS
Frequency 433.92 MHz
Output Power <300 microWatts ERP (Effective Radiated Power)

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

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

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

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NOTES:
(1) Portable reader available. Contact factory for details.
(2) Other antenna styles available. Contact factory for details.
(3) Druess 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.