Ultra Long Range Tags
RFID solutions for Vehicle, Asset and Personnel Tracking

The PureRF series of Ultra Long Range RFID Tags are used for hands-free asset protection, vehicle identification and personnel tracking.
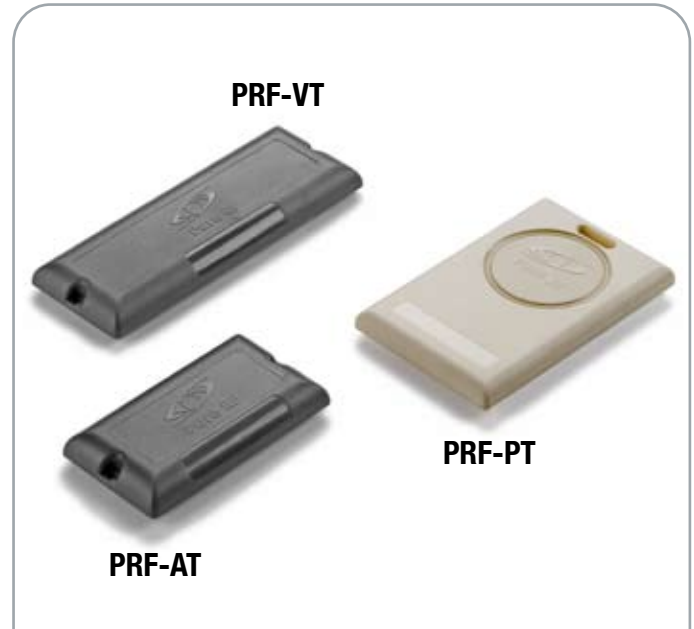
VEHICLE IDENTIFICATION

Identify and track vehicles at airports, gated communities, truck and bus terminals, employee parking lots, military installations, etc.

ASSET PROTECTION

Identify and track laptop and desktop computers, office machines, tools, telephones, shop equipment, in hospitals, office buildings, retail stores, warehouses, industrial facilities, etc.

PERSONNEL TRACKING

Identify and track employees and visitors in military bases, office buildings, mines, hospitals and warehouses for access control, emergency evacuation and mustering. Multiple Tags can be functionally linked to each other to match employees to laptops, drivers to vehicles and trucks to trailers, etc.
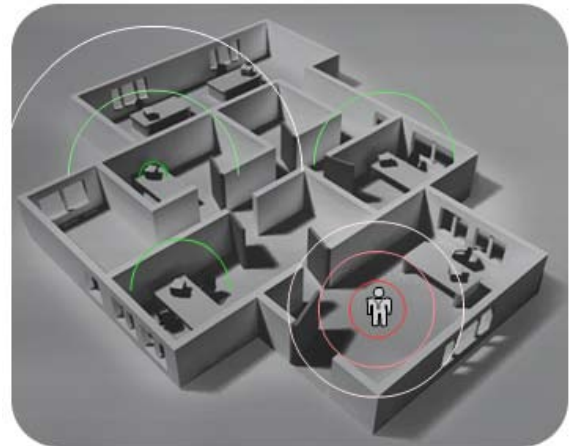

PRF-VT

PRF-PT

PRF-AT

Main Features

- Reliable low power consumption. Battery life is estimated at 5 years*
- Proprietary algorithm oversees communication between Tags and Readers
- Anti-Collision algorithm allows Reader identification of multiple Tags simultaneously
- TamperDetect™ feature can trigger alarm reports if Tags are removed from assets or vehicles
- Adjustable Tag read range within 0.5 to 500 feet (0.15 to 150m) **
- AutoLocate™ Beacon capability is standard in all Tags
- Push button feature can trigger distress or notification identification if pushed
- MotionDetect™ feature can trigger alarm reports if Tags are moving
- PinpointDetect™ feature can notify the Tag's location within 0.5 to 6 feet (0.15 to 1.8m)***
- Feature rich and flexible operation, configurable settings include: Site ID, Tag ID, Transmission Repetition and Alarm Functions
- All Tags support 26 bit Wiegand protocol
- Option: Tag's Initializer device which activates/deactivates the Tags and also configures tamper/motion and other alarm features

Tag Models

PRF-VT	Long Range Tag for assets or vehicles
PRF-PT	Personnel Badge Tag
PRF-AT	Small form factor Tag for assets or vehicles

Zone Control RFID Tracking in an Office Environment

PureRF Tags and Readers provide an accurate, real-time and dynamic means to detect, track, control, and monitor assets, vehicles, and personnel. This technology can be applied to operations and processes in all types of industries.

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Specifications

Frequency
433.92 MHz

Output Power (ERP)
0.16 – 0.23 mW

Operational Temperature
-22 °F to +167 °F
(-30 °C to +75 °C)

Storage Temperature
-22 °F to +176 °F
(-30 °C to +80 °C)

Humidity
5% to 90% (non-condensing)

Physical:

Part	Size	Weight
PRF-VT	40mm x 110mm x 8mm	29 grams
PRF-PT	56mm x 88mm x 7mm	32 grams
PRF-AT	40mm x 72mm x 9mm	22 grams

Range:

PRF-VT	up to 500 feet (150m)**
PRF-PT	up to 400 feet (120m)**
PRF-AT	up to 350 feet (105m)**

*   At a typical transmission interval of 2 sec. Battery life can be extended when the transmission intervals increases

**   Using a Reader with 0dBi Omni antenna. The distance can be extended using directional antennas with higher gain. Read distances may also vary as a result of the presence of metal and other environmental conditions

***   PureRF Activator is required to support this feature

Parts and Ordering Information

Pure RF Ultra Long Range Tags	
PRF-VT	Covert Vehicle or Asset Tag with AutoLocate™ Beacon Options: TamperDetect™, MotionDetect™, PinPointDetect™ Features
PRF-PT	Personnel ID Tag with Autolocate™ Beacon Options: MotionDetect™, PinPointDetect™ and Push Button Features
PRF-AT	Small Asset Tag with Autolocate™ Beacon Options: TamperDetect™, MotionDetect™, PinPointDetect™ Features

APPLICATIONS:

transportation   mining   emergency evacuation   gated communities

petrochemical   healthcare   manufacturing   supply chain

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