

# ONE SOLUTION FOR VEHICLE AND BUILDING ACCESS

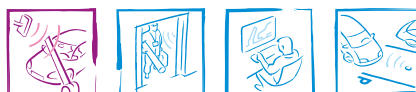
**UHF based long range ID at up to 4 meters [12ft].**

Reading an access card from 4 meters (12ft)? Is that possible? Yes! The innovative uPASS Reach guarantees read range up to 4 meters (12ft), using a single UHF card combined with HID, EM, Mifare or Legic card technology. One card for secure building access and convenient long range door and parking access. The uPASS Reach reader is developed from decades of experience with RFID



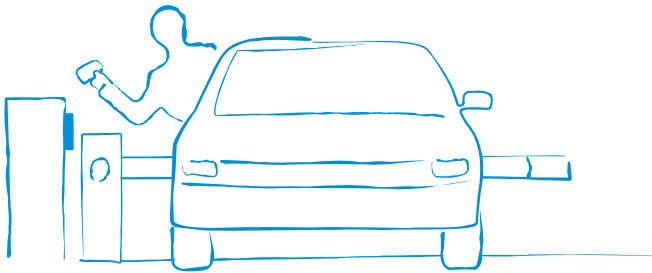
*uPASS Reach reader*

technology and timed to take advantage of superior Gen 2 tag read characteristics, it is a culmination of both experience and innovation. Featuring a 4 meter [12ft] read range, superior to all conventional Prox systems, the uPASS Reach offers a true long range solution for car parks, gated communities, and employee parking lots. Nedap AVI offers now long range UHF performance at competitive price.



# HANDSFREE PARKING ACCESS HAS NEVER BEEN SO AFFORDABLE!

**A very limited read range, increased risk of congestion and, most of all, inconvenience for the user to come to a full stop and open the window to present a badge. All major disadvantages of a proximity installation.**



The uPASS Reach is the perfect cure to the problems characteristic of prox and it's ideally suited for upgrading those installations as the reader can easily be installed on a gooseneck with no need for additional mounting accessories or rewiring.

uPASS Reach is a 865-955 MHz reader and EPC Gen 2 passive tag based system. With readers installed at a height between 1.2 and 2 meters [4-6.6 ft]. A long range UHF tag visible in direct line of sight will be identified from up to 4 meters [12 ft].

The reader output allows the access control or parking system to open the gate when authorized without the need for card readers or PIN pads. A built-in, high intensity LED provides visual feedback to the user that the tag has been read.

## Passive, maintenance free and customized tags

The system is based on passive Gen 2 UHF tags that provide superior read quality to previous tag standards.

Plus, they are both battery and maintenance free. Tags are mounted inside the vehicle behind the windshield. The thin, flexible, UHF Windshield Tag format is easy to install and has a windshield compatible adhesive to ensure proper mounting. For added security, tamperproof - break upon removal- tags are also available.



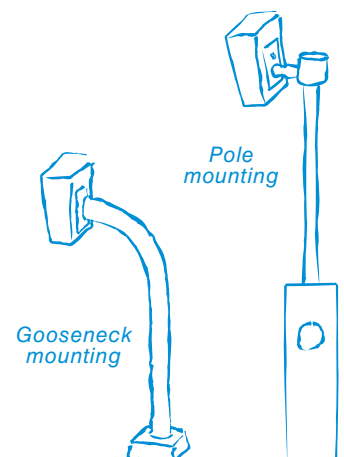
*UHF Windshield Tag*

Nedap customized UHF tags have a customer specific number sequence compatible to your application. The number is also printed on the tag allowing easy and fast enrolment of tags into a management system. An additional printed barcode makes it even easier. Security authentication features are included to provide data integrity and to prevent cloning of tags.

In addition, Hybrid UHF-HF cards are available that support UHF and all smartcard technologies used worldwide for access control and time & attendance solutions. Such as HID, EM, Mifare and Legic. A true one card solution is offered.

## Plug & Play operation

As with all of Nedap's AVI systems, the uPASS Reach reader features open industry communication. This allows seamless integration into any existing or new access control or parking management system and makes the uPASS Reach reader ideal for upgrading any existing Wiegand reader installation.





*Commercial parking*



*Residential parking*

The uPASS Reach reader has an integrated fine-tuned antenna in an elegant and compact enclosure ideal for outdoor (IP65) as well as indoor applications. The reader is compliant with ISO 18000-6c and EPCglobal Gen2 standards.

A specially designed mounting kit and protection hood are available to attach the reader to a gooseneck or pole.

### Reduced Install Costs = Increased Value

Easy to mount and a cinch to integrate with existing wiring and even able to be mounted directly to metal, the uPass Reach reader costs markedly less to install than other solutions. With

costs inline with many low end prox reader installations, the uPASS Reach reader offers performance unmatched in the industry for long range ID. The uPASS system is the ultimate solution for commercial and residential parking applications, such as car parks, gated communities and employee parking access.

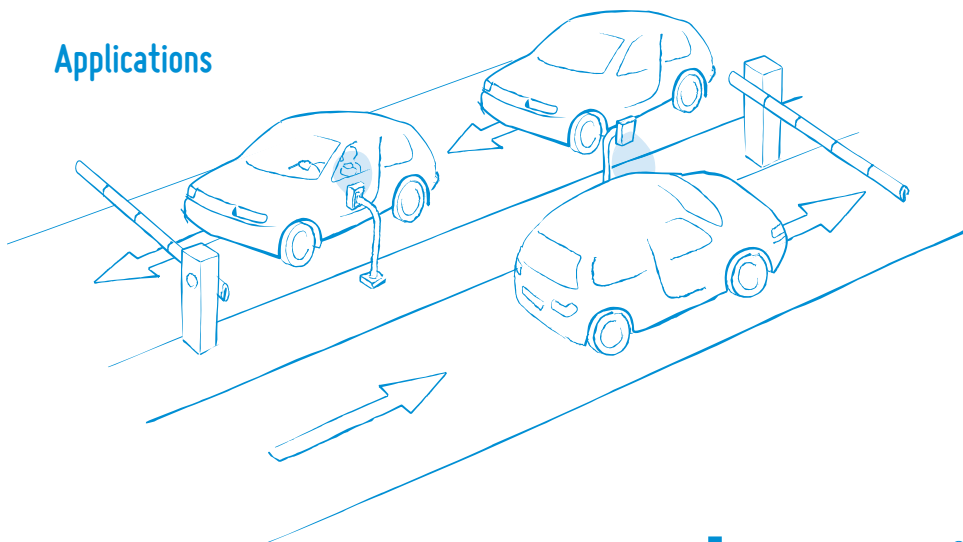
### Existing Protocols

Among others the uPass Reach reader offers Wiegand and Magstripe ISO 7811/2 data outputs, that allow for seamless integration into most legacy systems, so you can upgrade, not overhaul.

### Multi-lane

Featuring interference eliminating, frequency offset and time sharing capabilities, the uPASS Reach reader is ideally suited for multi-lane applications. This enables the readers to be mounted close to one another, reducing install costs, while still achieving superior performance.

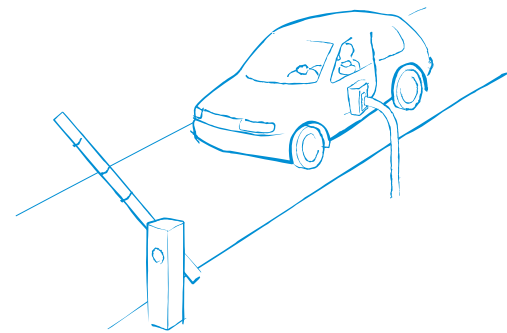
### Applications



## APPLICATION EXAMPLES

### Gooseneck

- Detection angle; 45 degrees
- Read range; up to 4 meters [12ft]
- Mounting height; approximately 1,25 meters [4,1 ft]



### Pole

- Detection angle; 45 degrees
- Read range; up to 4 meters [12ft]
- Mounting height; max 2 meters [6,6 ft]



# PRODUCT OVERVIEW



uPASS Reach reader

## uPASS READER

### uPASS Reach reader

Long range UHF parking access reader

Operating frequency: 865 -955 MHz

Dimensions: 7.9 x 8.7 x 1.8 in  
[200 x 220 x 45 mm]

Detection range: up to 4 meters [12 ft]

Interfaces: RS232, RS422 and USB

Outputs: Wiegand and Magstripe ISO 7811/2

Part nr: 9942319 uPASS Reach (region 1)  
9945466 uPASS Reach (region 2 & 3)



UHF Windshield Tag

## TAGS

### UHF Windshield Tag

Single ID vehicle tag

Identification: Vehicle ID

Part nr: 9945954 UHF Windshield Tag  
9942335 UHF Windshield Tag  
tamperproof



UHF ISO card

### UHF ISO combicard

Single driver ID

Identification: Driver ID

Part nr: 9943943



Weather Protection Hood

## ACCESSORIES

### Weather Protection Hood

Part nr: 7591152



Pole mounting set

### Pole mounting set

Part nr: 9943803



Adjustable mounting set

### Adjustable mounting set

Part nr: 9875840

## Expertise in Vehicle Identification

Nedap- founded in 1929 and based in the Netherlands - employs about 600 employees worldwide. Nedap AVI has an outstanding expertise in RFID technology and vehicle access applications. Our RFID solutions are tailored for vehicle applications, ensuring reliable operation for any vehicle gate environment. As one of the pioneers in RFID technology during decades, Nedap has established an impressive track record of vehicle identification installations worldwide in many different industries. Nedap's AVI system is considered the best in the market. Features as simultaneous driver and vehicle identification make the Nedap offering unique. Therefore Nedap is the perfect fit to any long range vehicle access application, offering a full product line for vehicle access. The latest addition to the product line, the uPASS Reach, is based on years of experience and expertise in this market.

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