

# UHF Windshield Tag

long-range vehicle identification tag

## Key features:

- ✓ automatic vehicle identification
- ✓ identification up to 15 meters\* (50 ft)
- ✓ passive, battery free tag
- ✓ EPC Gen 2 compatible
- ✓ thin, flexible sticker format
- ✓ UV- and tamper resistant
- ✓ customized printing available on request

The UHF Windshield Tag is a vehicle identification tag. It offers cost effective long-range identification for parking applications.

Based on passive UHF technology, the UHF Windshield Tag is identified up to 15 meters\* (50 ft) with uPASS Target or up to 10 meters (33 ft) with uPASS Go. The tag does not contain a battery and is maintenance free.

Typical applications include secure vehicle access to car parks, gated communities/ condominiums and offices.

## Easy installation

The UHF Windshield Tag can easily be fixed to a windshield as it has an adhesive front side. The thin, flexible, UHF sticker format tag is easy to install by permanently affixing it to the inside of a vehicle's windshield. The tag is protected against harmful UV rays.

## Tamper resistant

For added security, the UHF Windshield Tags are tamper resistant so it will show visual proof of removal and are difficult to remove intact and functional.



## Security

The UHF Windshield Tag is available in various formats, ensuring compatibility to any installation. Wiegand and Magstripe formatted tags are available to complement any access application. Nedap XS formatted tags are available to ensure easy integration for existing TRANSIT installations. Nedap formatted UHF Windshield Tags are featured with special security protection to provide data integrity and to prevent copying.

## Customization

The layout of the tag can be customized to promote company logos, names, user distinction and/or designs. Optionally, the tag ID number can be printed on the UHF Windshield Tag in barcode 39 format. The barcode can be read by a barcode scanner to offer easy enrollment of tags into a management system and efficient enforcement of vehicles.

Note: custom format tags will have a different physical appearance than pre-programmed tags. Please contact your Nedap representative to discuss the customization options.

*\*In combination with the uPASS Target reader. The maximum read range depends on reader type, the installation and the environment.*

Technical information	UHF Windshield Tag
Part number	9942335 UHF Windshield Tag W26 Default Programming 9946918 UHF Windshield Tag Custom Programming 9947426 uPASS Windshieldtag W26 Stock (US) 9988807 uPASS Windshieldtag Spec (US) 9988815 uPASS Windshieldtag Custom Art (US)
Dimensions	9942335 - 106,4 mm x 28,6 mm 9946918 - 90 x 27 mm 9947426 - 4.18 in x 1.12 in 9988807 - 4.25 x 1.37 in 9988815 - 4.25 x 1.37 in
Color	White with printing
Weight	1 g (0.04 lbs)
Protection class	IP54 (approx. NEMA 2)
Material	Destructible (9942335 & 9947426), Polyester (9946918) or paper (9988807 & 9988815)
Customization	Customized printing available on request
Operating temperature	-20 ... +70°C (-4 ... +158°F)
Storage temperature	-20 ... +70°C (-4 ... +158°F)
Relative humidity	10% ... 93% relative humidity, non condensing
Read range	Up to 15 meters (50 feet) with uPASS Target Up to 10 meters (33 feet) with uPASS Go
Operating frequency	865 - 870 MHz / 902 - 928 MHz
Mounting	Onto the windshield, the tag is featured with a standard pressure-sensitive adhesive back
Compatible readers	uPASS Target uPASS Go uPASS Reach (EOL) uPASS Access (EOL)
Standards	EPC Gen2
Document version number	6.1

# UHF Cards

UHF card with optional proximity or smartcard technology

## Key features:

- ✓ one card solution for access control
- ✓ identification up to 10 meters (33 feet)
- ✓ passive, battery free tag
- ✓ EPC Gen 2 compatible
- ✓ thin, ISO card format

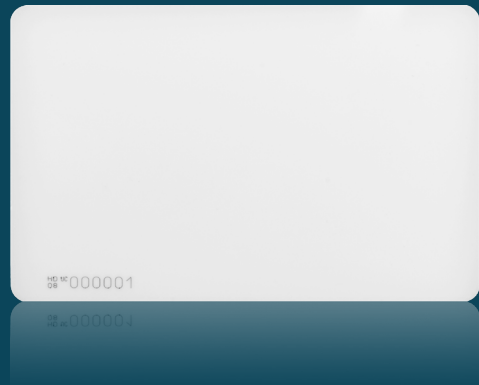
The UHF cards are featured with long-range UHF technology and optional proximity or smartcard technology. These combi cards ensure the use of one single card for both vehicle and building access applications.

Based on passive UHF technology, the UHF Card is identified up to 10 meters [33 feet] with uPASS Target, 7 meters [23 feet] with uPASS Go. The card does not contain a battery and is maintenance free.

Typical applications include secure access to parking areas in combination with building access at offices, gated communities or universities.

## UHF ISO Card

The UHF ISO Card is a long-range identification tag that only uses UHF technology for vehicle or people access control. Customized printing of the UHF Combi Card and UHF ISO Card is available on request.



## Combined technologies

The UHF Combi Card combines UHF technology with proximity or smartcard technology that is used for building access. This combination ensures compatibility and seamless integration with existing access control applications.

There are several UHF Combi Cards directly available;

- UHF - Mifare
- UHF - Mifare Desfire
- UHF - Legic Advant
- UHF - HID prox
- UHF - HID iClass

## UCODE DNA secure authentication

Prefer an EPC Gen2 V2 compliant card with secure authentication to protect against unwanted duplicates? Ask for our options.

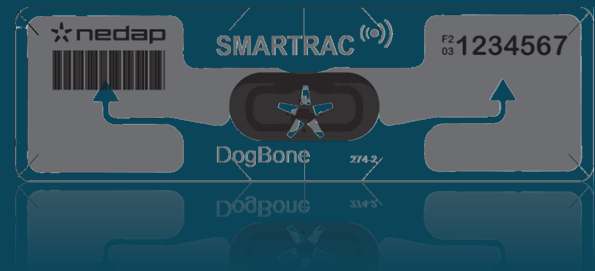
Technical information	UHF Cards
Part number	9943943 UHF ISO Card 9942343 Combi Card UHF - Mifare 9206388 Combi Card UHF - Mifare DESfire 9943960 Combi Card UHF - Legic Advant 9954104 Combi Card UHF- HID Prox 9959343 Combi Card UHF - HID iClass 9955836 Bundle 25 Combi Cards UHF – HID Prox Wiegand 26
Dimensions	85,5 x 54 x 5 mm (3.36 x 2.13 x 0.2 in)
Color	White
Weight	6 g (0.21 oz)
Protection class	IP65 (approx.NEMA4x)
Material	PVC
Customization	Customized printing available on request
Operating temperature	-10... +50°C (+14 ... +122°F)
Storage temperature	-10... +50°C (+14 ... +122°F)
Relative humidity	10% ... 93% relative humidity, non condensing
Read range	UHF - up to 10 meters (33 feet) with uPASS Target, up to 7 meters (23 feet) with uPASS Go Proximity / Smartcard - few cm, depending on applied reader and card technology
Operating frequency	UHF 865 - 870 MHz / 902 - 928 MHz (UHF ISO Card) UHF 865 - 870 MHz / 902 - 928 MHz & 13.56 MHz (Mifare / Legic/HID iClass) UHF 865 - 870 MHz / 902 - 928 MHz & 125 kHz (EM/HID Prox)
Antenna polarization	Linearly polarized antenna
Compatible readers	uPASS Target uPASS Go uPASS Reach (EOL) uPASS Access (EOL)
Standards	EPC Gen2
Document version number	6.1

# uPASS UHF Exterior Tag

long-range vehicle identification tag

## Key features:

- ✓ automatic vehicle identification
- ✓ identification up to 12 meters\* (40 ft)
- ✓ passive, battery free tag
- ✓ EPC Gen 2 compatible
- ✓ transparent, thin sticker format
- ✓ protection against harmful UV rays
- ✓ tamper evident



The UHF Exterior Tag is a vehicle identification tag. The tag is mounted on the exterior of a vehicle, offering cost effective long-range identification for parking applications.

Based on passive UHF technology, the UHF Exterior Tag is identified up to 12 meters\* (40 ft) with uPASS Target or up to 8 meters (26 ft) with uPASS Go. The tag does not contain a battery and is maintenance free.

Typical applications include secure vehicle access to car parks, gated communities and offices. Other applications include access control of motorbikes, scooters and mopeds. This sticker tag is purposely designed to be adhesive to the non-metal/metal containing exterior parts of the vehicle, preferably the headlight\*\*. This tag is the best option to enable reliable vehicle identification in situations where the entire car windshield is covered by solar film with metal particles.

## Easy installation

The UHF Exterior Tag is a transparent adhesive tag that can easily be fixed onto non-metal/metal containing exterior parts of the vehicle, preferably the headlight\*\*.

## Tamper resistant

The thin, flexible, UHF sticker format is easy to install and offers a tamper resistant solution by affixing it to the exterior of the vehicle. For added security, the UHF Exterior Tag is tamper evident; the tag shows visual proof of removal and are difficult to remove intact and functional\*\*. The chip inside the tag is protected against harmful UV rays.

## Security

The UHF Exterior Tag is available with various programming formats, ensuring compatibility to any installation. Wiegand and Magstripe formatted tags are available to complement any access control application. Nedap XS formatted tags are available to ensure easy integration into existing TRANSIT installations. Nedap formatted UHF Exterior Tags are featured with special security protection to provide data integrity and to prevent copying.

\* In combination with the uPASS Target reader. The maximum read range depends on reader type, the installation and the environment.

\*\* Application of the UHF Exterior Tag on vehicles may be subject to local legislation. Please verify if legal restrictions apply in your region.

Technical information	uPASS UHF Exterior Tag
Part number	9215255 UHF Exterior Tag
Dimensions	97 x 27 mm (3.82 x 1.06 in)
Color	Transparent, interior is visible
Weight	1 g (0.04 lbs)
Protection class	IP65 (approx. NEMA 4x)
Material	Polyester
Operating temperature	-20 ... +70°C (-4 ... +158°F)
Storage temperature	-20 ... +70°C (-4 ... +158°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Read range	Up to 12 meters (40 feet) with uPASS Target Up to 8 meters (26 feet) with uPASS Go
Operating frequency	865 - 870 MHz / 902 - 928 MHz
Mounting	Onto the non-metal / metal containing exterior parts of the vehicle, preferably the headlight.
Compatible readers	uPASS Target uPASS Go uPASS Reach (EOL) uPASS Access (EOL)
Standards	EPC Gen 2
Document version number	2.4

# UHF Hangtag

long-range vehicle identification tag

## Key features:

- ✓ automatic vehicle identification
- ✓ identification up to 15 meters\* (50 ft)
- ✓ convenient to hang on rear view mirror
- ✓ passive, battery free tag
- ✓ EPC Gen 2 compatible
- ✓ UV-resistant
- ✓ customized printing available on request

The UHF Hangtag is a long range vehicle identification tag. It is the optimal solution for temporary parking access control applications.

Based on passive UHF technology, the UHF Hangtag is identified up to 15 meters (50 ft) with uPASS Target or 10 meters (33 ft) with uPASS Go. The tag does not contain a battery and is maintenance free.

## Temporary access control applications

For temporary access control applications, the UHF Hangtag is the optimal solution. As the tag is hung on the rear view mirror of the vehicle, it does not need to be attached to the windshield. It can be used for access control in parking lots, gated communities and any other situation where vehicles come and go.

## Removable and reusable

The UHF Hangtag provides an excellent read range. It is completely removable and thus reusable. The logo and barcode are printed on both sides of the tag (standard part numbers). The barcode can be read by means of a barcode scanner to offer easy enrollment of tags into a management system and efficient enforcement of vehicles.



## Customization

The layout of the tag can be customized to promote company logos, names and/or designs. The layout may include block type, stylized type, logos or other designs. All copy, block type, logos, designs and bar code are subsurface printed. This unique process provides excellent durability and rigidity.

*\*In combination with the uPASS Target reader. The maximum read range depends on reader type, the installation and the environment.*

Technical information	UHF Hangtag
Part number	9988823 uPASS Hangtag W26 Stock 9988831 uPASS Hangtag Spec 9988858 uPASS Hangtag Custom Art
Dimensions	8.5 x 13.3 cm - 3.375 x 5.25 Inch
Color	White with printing
Weight	7 g (0.25 oz)
Protection class	IP54 (approx. NEMA 2)
Material	Polyester
Customization	Customized printing available on request
Operating temperature	-20 ... +70°C (-4 ... +158°F)
Storage temperature	-20 ... +70°C (-4 ... +158°F)
Relative humidity	10% ... 93% relative humidity, non condensing
Read range	Up to 15 meters (50 feet) with uPASS Target Up to 10 meters (33 feet) with uPASS Go
Operating frequency	865 - 870 MHz / 902 - 928 MHz
Mounting	Hang around the rearview mirror of the car
Compatible readers	uPASS Target uPASS Go uPASS Reach (EOL) uPASS Access (EOL)
Standards	EPC Gen2
Document version number	1.1



# UHF Heavy Duty Tag

long-range vehicle identification tag

## Key features:

- ✓ automatic vehicle identification
- ✓ identification up to 18 meters\* (60 feet)
- ✓ passive, battery free tag
- ✓ EPC Gen 2 compatible
- ✓ mounted on the exterior of the vehicle
- ✓ high performance on metal surfaces
- ✓ chemical resistant housing
- ✓ water and shock proof



The UHF Heavy Duty Tag is a vehicle identification tag. This tag features a rugged design for long term outdoor use in industrial environments. The UHF Heavy Duty Tag is a cost effective solution for installations that require the tag to be mounted onto the exterior of the vehicle.

Based on passive UHF technology, the UHF Heavy Duty Tag is identified up to 18 meters\* (60 feet) with uPASS Target or 10 meters (33 feet) with uPASS Go. The tag does not contain a battery and is maintenance free.

Typical applications include secured vehicle access in vehicle logistics, industrial operations, automated truck activities and parking access.

## Industrial environments

The UHF Heavy Duty Tag is capable of reading on, off and near metal surfaces. The shock and impact resistant housing provides high resistance to aggressive liquids and excellent stability over fluctuating temperatures. The chemical resistant housing ensures ongoing long term performance. The elaborated designed and manufactured housing structure enables the tag to be truly waterproof.

## Easy installation

The UHF Heavy Duty Tag needs to be mounted directly onto metal for optimal performance. It is featured with two mounting holes allowing easy permanent mounting onto the metal exterior of the vehicle.

## Security

UHF Heavy Tags are available in various formats ensuring compatibility to any installation. Wiegand and Magstripe formatted tags are available to complement any access application. Nedap XS formatted tags are available to ensure easy integration for existing TRANSIT users. Nedap formatted UHF Heavy Duty Tags are featured with special security protection to provide data integrity and to prevent copying.

*\* In combination with the uPASS Target reader. The maximum read range depends on reader type, the installation and the environment.*

Technical information	UHF Heavy Duty Tag
Part number	9219641 UHF Heavy Duty Tag
Dimensions	110 x 25 x 12,85 mm (4.33 x 0.98 x 0.51 in)
Color	Grey
Weight	26 g [0.92 oz]
Protection class	IP68
Material	ABS rigid plastic
Operating temperature	-20 ... +85°C (-4 ... +185°F)
Storage temperature	-20 ... +85°C (-4 ... +185°F)
Relative humidity	10% ... 93% relative humidity, non-condensing
Read range	Up to 18 meters (60 feet) with uPASS Target Up to 10 meters (33 feet) with uPASS Go
Operating frequency	865 - 870 MHz / 902 - 928 MHz
Mounting	Onto the metal exterior of the vehicle using M5 screws. Fixation hole: 4,9 mm (0.19 in) / Screw center to center distance: 97,5 mm (3.84 in)
Compatible readers	uPASS Target uPASS Go uPASS Reach (EOL) uPASS Access (EOL)
Standards	EPC Gen 2, CE
Vibration	MIL STD 810-F
Shock	MIL STD 810-F
Document version number	5.3