

# Window Tag Ultimate

long-range vehicle identification

## Key features:

- ✓ automatic vehicle identification
- ✓ identification up to 10 meters (33 feet)
- ✓ easy mounting to vehicle's windshield
- ✓ includes user activation switch
- ✓ advanced tag authentication based on AES encryption
- ✓ uses two RFID frequencies for optimized performance



The Window Tag Ultimate is a long-range vehicle identification tag. Based on semi-active RFID technology, the Window Tag Ultimate is identified at distances up to 10 meters (33 feet) with Nedap's TRANSIT Ultimate reader.

In situations where vehicles need to be identified, the Window Tag Ultimate is the preferred choice. Typical applications include access to parking facilities, gated communities and corporate sites.

## Read-only

The Window Tag Ultimate is read-only factory programmed with a unique customer specific security code, a customer defined tag ID number and unique AES128 authentication encryption keys. The part number, tag ID number and date of manufacture are laser etched into the back case of the tag.

## User activation

For applications that require user activation, the Window Tag Ultimate can be applied. This tag is designed for situations where the driver determines the time and distance of the vehicle being identified. When the switch on the front of the tag is activated by the driver, the tag ID is transmitted to the TRANSIT reader for 5 seconds.

## Windshield mounting

As the Window Tag Ultimate is equipped with suction pads on the backside, it can be mounted onto the windshield easily. Thanks to this convenient design, installing the Window Tag Ultimate only takes seconds.

## Two frequencies

The Window Tag Ultimate uses the 2,45 GHz for reliable identification and the 433 MHz frequency for advanced tag authentication\* using AES standards.

\*Note: the advanced tag authentication function is only functional when the Security Key Pack has been installed in the TRANSIT Ultimate.

Technical information	Window Tag Ultimate
Part number	9564314 Window Tag Ultimate
Dimensions	111 x 65 x 26 mm (4.37 x 2.56 x 1.02 in)
Color	RAL 7016 (housing), RAL 7035 (edge)
Weight	115 g (4.1 oz)
Protection class	IP32 (approx. NEMA 2)
Material	PC and TPU
Operating temperature	-40 ... +85°C (-40...+185°F)
Storage temperature	-40 ... +85°C (-40 ... +185°F)
Relative humidity	10% ... 93% relative humidity, non condensing
Read range	Up to 10 meters (33 feet) with TRANSIT Ultimate; message acceptance ratio > 80%
Operating frequency	2.45 GHz and 433 MHz (integrated antennas)
Operating modes	RO-C = read-only, switch button activation
Authentication	Yes, two-way authentication using AES128 bit encryption with diversified keys
Air interface	AES128 encryption with diversified keys; 300kbps/ GFSK 75 kHz Duty cycle < 1%; LBT not applicable Nedap proprietary encoding standard
Battery	User replaceable alkaline AAA batteries (x2) with expected lifetime of 5 years. Life time expectation is based on: Average warm climate conditions (exposure to extreme hot conditions might reduce battery life). 2.6V < Vbat < 3.3V max. 0.12A; Battery low beeper when Vbat < 2.6V
Mounting	Attaches with a suction pad to the inside of all normal windscreens*. *In case of a metalized windscreen, please contact your Nedap representative.
Compatible readers	9215689 TRANSIT Ultimate
Optional accessories	9216537 Security Key Pack
Standards	CE, FCC, IC, ACMA, R-NZ, UL294
Document version number	2.1