

# TRANSIT Booster

long-range vehicle & driver  
identification tag

## Key features:

- ✔ simultaneous vehicle and driver identification
- ✔ identification up to 12 meters\* (40 feet)
- ✔ patented dual identification solution
- ✔ easy mounting to vehicle's windshield
- ✔ different versions to support the latest cards and credential technologies
- ✔ optional advanced tag authentication (Ultimate mode)



The TRANSIT Booster is a vehicle and driver identification tag. This patented solution ensures that a vehicle can only get access to a secured area when driven by an authorized driver. The TRANSIT Booster is used in combination with (existing) personal access credentials. Based on semi active RFID technology, the TRANSIT Booster is identified up to 12 meters\* (40 feet) with the TRANSIT Ultimate reader.

Typical applications include highly secured vehicle access at airports, seaports, military bases, police, firebrigades, critical infrastructure utilities, and other installations where vehicles must be assigned to specific drivers.

## Driver based identification

The driver based vehicle identification solution consists of two elements: a building access card and an in-vehicle Booster. The Booster is mounted on the inside of a vehicle's windshield. The booster assists the TRANSIT reader to identify and authenticate the card ID. The TRANSIT reader transmits the combination of the card ID and booster ID to any access control system. If this combination is authorized, access is granted and the gate opens automatically.

## Building access

By removing the access card from the Booster, it can be used for building access. The Booster solution eliminates the need to issue (new) cards, making it easily integrable into existing installations. As the solution operates only when the access card and the Booster are combined, removal of the access card ensures a high level of security.

## Supported Cards

The TRANSIT Booster comes in five versions; a Booster for low frequency cards, Smartcards, Smartcards including advanced tag authentication (Ultimate mode), an ultimate booster specifically for Legic cards and an Ultimate Booster for HID cards.

## Windshield mounting

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

## Sustainable design

The TRANSIT Booster uses two AAA-type replaceable batteries with an expected lifetime of 5 years after which the batteries can be replaced for more years of service. The product is produced in The Netherlands with an eye for sustainable sourcing, processing, labour and reducing the logistic footprint.

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

Technical information	TRANSIT Booster
<b>Part number</b>	9948546 Prox Booster Single ID 2G
	9948538 Prox Booster 2G
	9948554 Smartcard Booster 2G
	9982809 Smartcard Booster Ultimate
	9982817 Legic Booster Ultimate
	9988483 Smartcard Booster End2End
<b>Dimensions</b>	111 x 65 x 28 mm (4.4 x 2.6 x 1.1 in)
<b>Color</b>	RAL 7016 (housing), RAL 7035 (edge)
<b>Weight</b>	110 g (3.9 oz)
<b>Protection class</b>	IP32 (approx. NEMA 2)
<b>Material</b>	PC and TPU
<b>Operating temperature</b>	-40 ... +85°C (-40...+185°F)
<b>Storage temperature</b>	-40 ... +85°C (-40 ... +185°F)
<b>Relative humidity</b>	10% ... 93% relative humidity, non condensing
<b>Read range</b>	Up to 12 meters (40 feet) with TRANSIT Ultimate; message acceptance ratio > 80%
<b>Operating frequency</b>	2.45 GHz, 120 KHz (Prox) / 13.56 MHz (Smartcard) / 433 MHz (Ultimate/End2End)
<b>Operating modes</b>	RO-C = read-only, switch button activation RO-A = read-only, always on (only available for Prox- & Smartcard Booster 2G)
<b>Authentication</b>	Ultimate Boosters with two-way authentication using AES128 bit encryption End2End Booster supports End2End encrypted authentication
<b>Supported Credentials</b>	Prox Booster: Nedap, EM4200 and HID-PROX Smartcard Booster 2G and Ultimate: Mifare Classic, Ultralight, DESFire (EV1/2/3), Calypso PUPI and ISO 14443-3A CSN Legic Booster Ultimate: Legic Prime, Legic Advant and ISO14443-A/B CSN Smartcard Booster End2End: HID iClass, HID Elite keys, HID SEOS (Mobile ID over NFC - Android only), DESFire (EV1/2/3), LEAF
<b>Air interface</b>	300kbps/ GFSK 75 kHz Duty cycle < 1%; LBT not applicable Nedap proprietary encoding standard
<b>Battery</b>	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
<b>Mounting</b>	Attaches with a suction pad to the inside of all normal windscreens.
<b>Compatible readers</b>	TRANSIT Ultimate
<b>Optional accessories</b>	9216537 Security Key Pack for use in conjunction with Ultimate Boosters 9233741 TRANSIT TAB Upgrade Kit for use in conjunction with 9988483
<b>Standards</b>	CE, FCC, IC, UKCA, ACMA, R-N2
<b>Document version number</b>	1.1