Nedap N.V. | Automatic Vehicle Identification
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BOOSTER

Long range driver identification

The Boosters enables long range driver identification. Driver based ID systems ensure that a vehicle can never get access to a secured area unless occupied by an authorized driver. The Booster is used in combination with a personal access credential. It is an easy to integrate solution for vehicle access, which eliminates the need to issue new cards.

Key features

- **Long range driver ID (10 m/ 33 ft)**
- **Supported credentials**
  - **HID prox, EM, Nedap**
  - **MIFARE, HID iCLASS, LEGIC**
- **One card solution**
- **Maximizes perimeter security**
- **Simultaneous driver & vehicle ID**

Change without prior notice/ version 1.3_E

Driver based identification, how does it work?

The driver based tag is made up of two elements.

1) Building access card
2) In-vehicle Booster

The Booster is placed on the windshield on the inside of a vehicle. When an authorized building access card is inserted into the Booster it will be read and then "boosted" to the external Nedap TRANSIT reader. The TRANSIT reader transmits the credential ID to any standard back end security panel. If the credential is authorized and access is granted the gate will open automatically. Removal of the Driver ID is ensured by designing the system to require that the access cards is also used for building access.

Matching vehicle and driver

Optionally a separate ID (vehicle ID) can be programmed in the Booster hardware on certain models), this allows you to match the right driver

Boosters are available for almost all card technologies:

Prox-Booster

A driver based tag supporting proximity access control badges operating on 120-125 kHz such as HID prox, EM and Nedap.

Smartcard-Booster

The Smartcard-Booster supports ISO 14443 or 15693 compliant smartcards (eg. MIFARE, LEGIC and HID iClass) operating on 13.56 MHz. Depending on applied card technology either CSN or sector information can be read, see for Booster_Installguide for more information.

Transition-Booster

The Transition-Booster supports proximity (120-125 kHz) as well as smartcard (13.56 MHz) technology. The Transition-Booster is specifically designed to be used in applications were multiple card technologies are applied simultaneously. It allows for seamless migration from existing Prox to versatile smart card applications.

Booster applications

Typical applications for the Booster are high secured areas like airports, seaports, military bases, utility companies, corporate and educational campuses, police, fire and other installations where vehicles must be assigned to a specific driver.

SPECIFICATIONS

Technical information	Prox-Booster	Smartcard-Booster	Transition-Booster
Part no.	9895744	9895337	9895752
Operating frequency	120 kHz /2.45 GHz	13.56 MHz / 2.45 GHz	120 kHz / 13.56 MHz / 2.45 GHz
Dimensions	116 x 72 x 27 mm [4.6 x 2.8 x 1.1 in] according to Ertico OBU standard		
Weight	95 gram [3.4 oz]	120 gram [4.2 oz]	120 gram [4.2 oz]
Protection	IP32 [approx. NEMA 2]		
Colour	Grey, according to RAL 7035		
Operating temperature	-20 ... +85°C [-4...+185°F]		
Storage temperature	-40 ... +85°C [-40...+185°F]		
Detection range	10 meters [33 feet] with TRANSIT readers		
Humidity	10% ... 93% relative humidity, non condensing		
Mounting	Attaches with suction pads to the windscreens on the inside of a vehicle. In case of a metallised windscreen a metal free communication window is required.		
Certification	EN60950, EMC 89/336/EEC, EN50081-1, EN 50082-1, ETS 0908 and FCC pending		
Power supply	Built-in factory replaceable lithium batteries with expected lifetime of 5 years.	Built-in user replaceable AAA lithium batteries with expected lifetime of 5 years.	Built-in user replaceable AAA lithium batteries with expected lifetime of 5 years.
Inductive readable	Embedded Booster ID (vehicle ID)	Embedded Booster ID (vehicle ID)	Embedded Booster ID (vehicle ID)
Identification	Driver ID & vehicle ID	Driver ID & vehicle ID	Driver ID & vehicle ID
Supported prox cards (120-125 kHz cards)	HID prox, up to 40 bits *(HIB required on reader level 7819102)* EM/ Nedap		HID prox, up to 40 bits *(HIB required on reader level 7819102)* EM, Nedap
Supported smartcards (13.56 MHZ)		ISO 14443 1/2A/3A (*MIFARE CSN and optional sector information)* ISO 15693 1/2/3 *(LEGIC Advant UID, for LEGIC sector information, see special versions)* HID ICLASS CSN	ISO 14443 1/2A/3A *(MIFARE CSN and optional sector information)* ISO 15693 1/2/3 (*LEGIC Advant UID, for LEGIC sector information, see special versions)* HID ICLASS CSN
Documentation	Booster_installguide_E www.nedapavi.com/en/boosterupgrade (for information regarding compatibility with existing installations)		
Readers	9990410 TRANSIT PS270 Standard reader 9875220 TRANSIT PS270 Standard reader USA		
Special versions	9848490 Booster HID *Dedicated HID prox version, supports HID prox cards only. No embedded vehicle ID, see Booster HID_ProdBull)* 9892508 Prox Booster Cardax	9895728 Smartcard-Booster Legic *(dedicated LEGIC version, which can read LEGIC sector information, see separate Smartcard-Booster Legic_ProdBull)*	

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