LEGIC Booster Ultimate

long-range vehicle & driver
identification tag

Key features:

- ✓ simultaneous vehicle and driver identification
- ✓ identification up to 12 meters* (40 feet)
- ✓ patented dual identification solution
- ✓ supported credentials: LEGIC (Prime & Advant)
- ✓ easy mounting to vehicle's windshield
- ✓ advanced tag authentication based on AES encryption
- ✓ uses two RFID frequencies for optimized performance

The LEGIC Booster Ultimate 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 LEGIC Booster Ultimate is used in combination with (existing) LEGIC smart cards. Based on semi active RFID technology, the LEGIC Booster Ultimate 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, utility companies, corporate and educational campuses, police, fire 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 LEGIC access card and an in-vehicle LEGIC Booster Ultimate. Once configured, the LEGIC Booster Ultimate is mounted on the inside of a vehicle's windshield. When an authorized access card (driver ID) is inserted into the LEGIC Booster Ultimate, it is read, combined with the vehicle ID, and then boosted to the TRANSIT reader. The TRANSIT transmits the combined ID numbers 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 LEGIC 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 LEGIC Booster are combined, removal of the access card ensures a high level of security.

Configuration

The LEGIC Booster Ultimate needs to be configured using the Master Token Set. This set enables entering the customer specific parameters into the LEGIC Booster Ultimate to find the companies' specific access control segment.

Windshield mounting

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

Two frequencies

The LEGIC Booster 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.

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

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Technical information	LEGIC Booster Ultimate
Part number	9982817 LEGIC Booster Ultimate
Dimensions	111 x 65 x 28 mm (4.4 x 2.6 x 1.1 in)
Color	RAL 7016 (housing), RAL 7035 (edge)
Weight	110 g (3.9 oz)
Protection class	IP32 (approx. NEMA 2)
Material	PC and TPU
Operating temperature	-20 ... +85°C (-4...+185°F]
Storage temperature	-40 ... +85°C (-40 ... +185°F)
Relative humidity	10% ... 93% relative humidity, non condensing
Read range	Up to 12 meters (40 ft) with TRANSIT Ultimate
Operating frequency	2.45 GHz / 120 KHz / 13.56 MHz / 322 MHz
Operating modes	RO-C = read-only, switch button activation
Authentication	Yes, two-way authentication using AES128 bit encryption with diversified keys
Supported cards	LEGIC Prime LEGIC Advant ISO14443-A/B CSN
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) and default operating mode C.
Mounting	Attaches with a suction pad to the inside of all normal windscreens.
Compatible readers	9215689 TRANSIT Ultimate
Optional accessories	9216537 Security Key Pack
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