



# ImproX SupaGate Lite

## Product Specification Catalogue

The **ImproX SupaGate Lite** is the baby of the range and is the perfect cost effective single door access control solution.

The SupaGate Lite includes an ImproX SupaGate Lite Controller and the ImproX (SKA) SupaGate Keypad Antenna Reader. In addition, the SupaGate Lite Controller also supports the following Antenna Reader types: ImproX (SKA) SupaGate Keypad Antenna Reader, ImproX (MMA) Mullion Antenna Reader, ImproX (MA) Micro Antenna Reader, ImproX (MHA) Metal Antenna Reader, ImproX (KHA) Metal Keypad Antenna Reader, ImproX (KMA) Mullion Keypad Antenna Reader, ImproX (RA) Rod Antenna Reader, ImproX (KA) Keypad Antenna Reader, ImproX (DPA) Door Entry Panel Antenna Reader or ImproX (CA) Conduit Antenna Reader.

The SupaGate Lite is a DIY-friendly solution to the costly exercise of replacing locks and keys when keys are lost or stolen. The Controller has a simple to use manual addition and deletion process that allows Tags to be modified as and when desired.

The SupaGate Lite is your gateway into the electronic access control market. The cost and convenience benefits of this little system speak for themselves.

## Key Features

### ImproX SupaGate Lite

- Cost effective.
- Simple installation.
- Easy to use.
- Controls 1 access point.

## ImproX SupaGate Lite

### Controller

SGI910-1-0-GB-XX

### ImproX SupaGate Lite Controller

- 1 Relay.
- Two 7-segment Display LEDs.
- 4 Externally accessible Programming Push-buttons.
- Operates using a 12 V Power Supply.
- Supports a combination of up to 99 Passive Tags or PIN-codes.
- Supports programmable Relay drive times of 1 to 99 seconds.
- The Relay can be set to Toggle Mode.
- Supports the ImproX (SKA) SupaGate Keypad Antenna Reader as well as the full range of ImproX Antenna Readers.

### ImproX (SKA) SupaGate Keypad Antenna Reader

- A single bi-coloured Red or Green Status LED.
- A single tone Buzzer.
- A 12 button alphanumeric Keypad.

## Reading Range (Tag)

Tag Type	Typical Range (Minimum) (mm)	Typical Range (Minimum) (in)
ISO Credit Card (Slim)	25 - 50	1 - 2

*NOTE: Mounting the ImproX SKA on a metallic surface will reduce the Tag reading range slightly.*

## Physical Specifications

### SGI910 ImproX SupaGate Lite Controller

Length	: 144 mm (6 in).
Width	: 92 mm (4 in).
Height	: 33 mm (1 in) (excluding the Standoffs).
Approximate Weight	: 151 g (5 oz).
Housing Material	: Polycarbonate.
Colour	: Black tinted.

### SGI913 ImproX (SKA) SupaGate Keypad Antenna Reader

Length	: 88 mm (3 in).
Width	: 60 mm (2 in).
Height	: 24 mm (1 in).
Approximate Weight	: 168 g (6 oz).
Housing Material	: Polycarbonate.
Colour	: Black tinted.

## Environmental Specifications

Operating Temperature	: -25°C to +60°C (-13°F to +140°F).
Storage Temperature	: -40°C to +80°C (-40°F to +176°F).
Humidity Range	: 0 to 95% relative humidity at +40°C (+104°F) non-condensing.



## Approvals

CE Approval : EN 300 330-1.  
EN 301 489-3.

NOTE: The ImproX SKA was tested in conjunction with the ImproX SupaGate 4-Channel Controller.

FCC Approval : Pending.

Dust & Splash Resistance ( ImproX SupaGate Lite Controller) : The SupaGate Lite is designed to work in an indoor or protected outdoor environment similar to IP20. The SupaGate Lite is, therefore, NOT sealed against water.

Dust & Splash Resistance (ImproX SKA) : Designed to work in an indoor or outdoor environment similar to IP53. The ImproX SKA is, therefore, sealed (potted) against water.

Drop Endurance : 2 m (7 ft) drop (in packaging).

## Electrical Specifications

### Power

Input Voltage : 10 V DC to 14 V DC.

Power Requirements	Current (mA)	Power (W)
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Input Voltage 12 V DC, Antenna Reader, Relay OFF	60	0.72
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Input Voltage 12 V DC, Antenna Reader, Relay ON	100	1.2
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Permissible Input Supply Ripple Voltage (Max) : 1 V<sub>PP</sub> at 50 Hz.

Power Input Protection : Reverse polarity and surge protection.

### Relays

Relay Output : 1 Relay, with NO, COM and NC contacts.

Contact Ratings : 10 A at 28 V DC, 5 A at 220 V AC.

## User Interfaces

### ImproX SupaGate Lite Controller

#### LED Indicators

7-Segment Display : 2 Displays, Red (externally visible).

#### Push-buttons

Push-buttons : 4 Push-buttons (externally accessible).

### ImproX (SKA) SupaGate Keypad Antenna Reader

Buzzer : Single tone, 4 kHz.

Keypad : 12 Alphanumeric keys.

Status LED : Bi-coloured Red or Green.

## Related Information

For extra information relating to this product refer to the:

- Hardware Installation Manual (SGI301-0-0-GB-XX).

## Ordering Information

Order the ImproX SupaGate Lite Controller using the following Part Number:

- SGI910-1-0-GB-XX: ImproX SupaGate Lite Controller.

## Warranty Details

**CAUTION:** We reserve the right to nullify the product's warranty where you have not properly installed the Metal-oxide Varistors.

This product conforms to our Warranty details on [www.impro.net](http://www.impro.net).

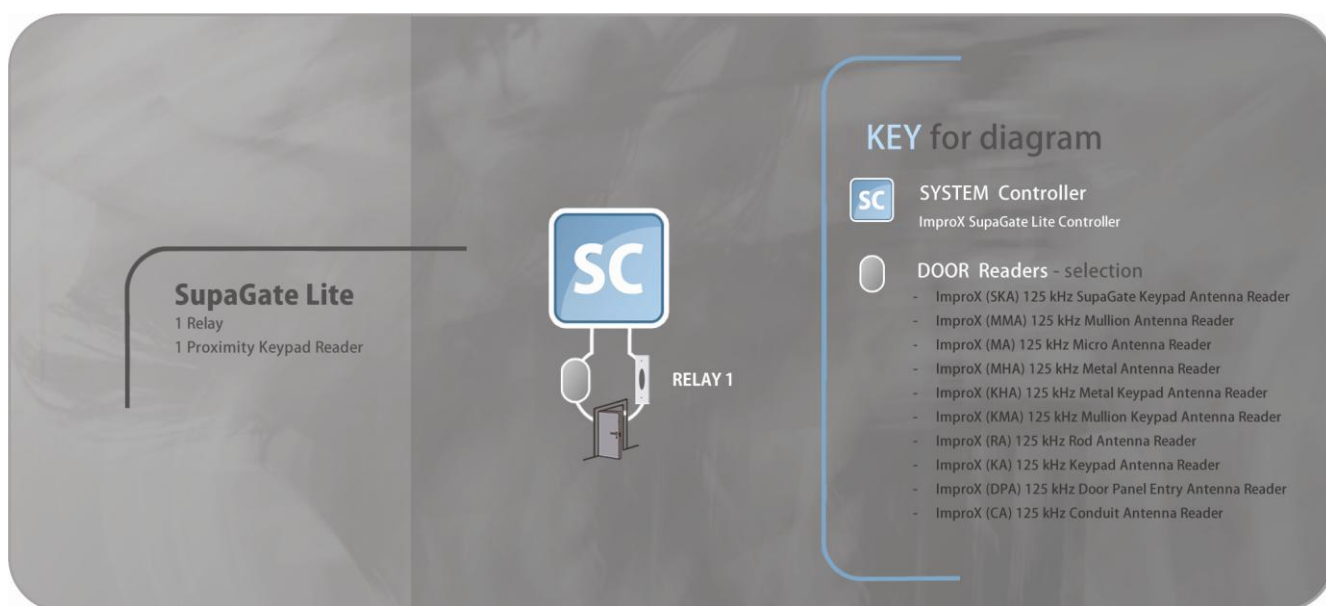


Figure 1: SupaGate Lite Overview

This Product Specification Catalogue applies to the ImproX SupaGate Lite Controller, SGI910-1-0-GB-02.  
(The last two digits of the Impro stock code point to the issue status of the document or product).

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