



ImproX SupaGate

4-Channel Controller

SGI911-1-1-GB-XX

ImproX SupaGate

Product Specification Catalogue

The **SupaGate 4-Channel Controller** provides a compact and reliable access control system for small commercial and upmarket residential access control applications. Combining both Dynamic Code Transmission radio frequency and passive transponder technology the SupaGate is ideal for both personal and vehicle access points.

The SupaGate can control up to four separate access points, made up of up to four RF access points or three RF access points and one passive access point. In addition the SupaGate supports both keypad and non-keypad Antenna Readers. When a keypad Antenna Reader is used the SupaGate supports the option of PIN only access.

Compatible with the entire ImproX range of Antenna Readers, you have the option of 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 is your gateway into the electronic access control market. With both vehicle and personal access and PIN-code only access it is versatile enough to control your office or residence.

The cost and convenience benefits of this little system speak for themselves.

Key Features

- Cost effective.
- Simple to install.
- Easy to use.
- Supports up to 4 access points (made up of up to 4 RF access points or 3 RF access points and 1 passive access point).
- Supports Dynamic Code Transmission Technology, for added security, when used with the ImproX (QT) Quad Transmitter (XQT904).
- The SupaGate has a tested RF read range of between 10 m to 30 m (11 yd to 33 yd) when used with the ImproX QT (XQT904).
- 4 Relays.
- 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 RF Transmitters, Passive Tags or PIN-codes.
- Each RF Transmitter Push-button can be loaded separately.
- Supports programmable Relay drive times of 1 to 99 seconds.
- Each Relay can be set to Toggle Mode.
- Supports the ImproX (SKA) SupaGate Keypad Antenna Reader or the full range of ImproX Antenna Readers for the 125 kHz Scanner.

Physical Specifications

Length	: 144 mm (6 in).
Width	: 92 mm (4 in).
Height	: 33 mm (1 in) (excluding Standoffs). 44 mm (2 in) (including Standoffs).
Approximate Weight	: 197 g (7 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.
FCC Approval	: Pending.
Dust & Splash Resistance	: The SupaGate is designed to work in an indoor or protected outdoor environment similar to IP20. The SupaGate is, therefore, NOT sealed 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, 1 Antenna Reader, all Relays OFF	60	0.72
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Input Voltage 12 V DC, 1 Antenna Reader, all Relays ON	220	2.64
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Permissible Input Supply
Ripple Voltage (Max) : 1 V_{pp} at 50 Hz.

Power Input Protection : Reverse polarity protection.

Relays

Relay Output : 4 x Relays, each with NO, COM and
NC contacts.

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

Transmitter Frequency

Passive Frequency : 125 kHz.

RF Frequency : 433.92 MHz.

Security

Security : ImproX DCT, Dynamic Code
Transmission Technology.

User Interfaces

LED Indicators

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

Push-buttons

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

Related Information

For extra information relating to this product refer to the:

- Hardware Installation Manual (SGI300-0-0-GB-XX).

Ordering Information

Order the ImproX SupaGate 4-Channel Controller using the following Part Number:

- XSGI911-1-1-GB-XX: ImproX SupaGate 4-Channel Controller.

Warranty Details

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

This product conforms to our Warranty details on www.impro.net.

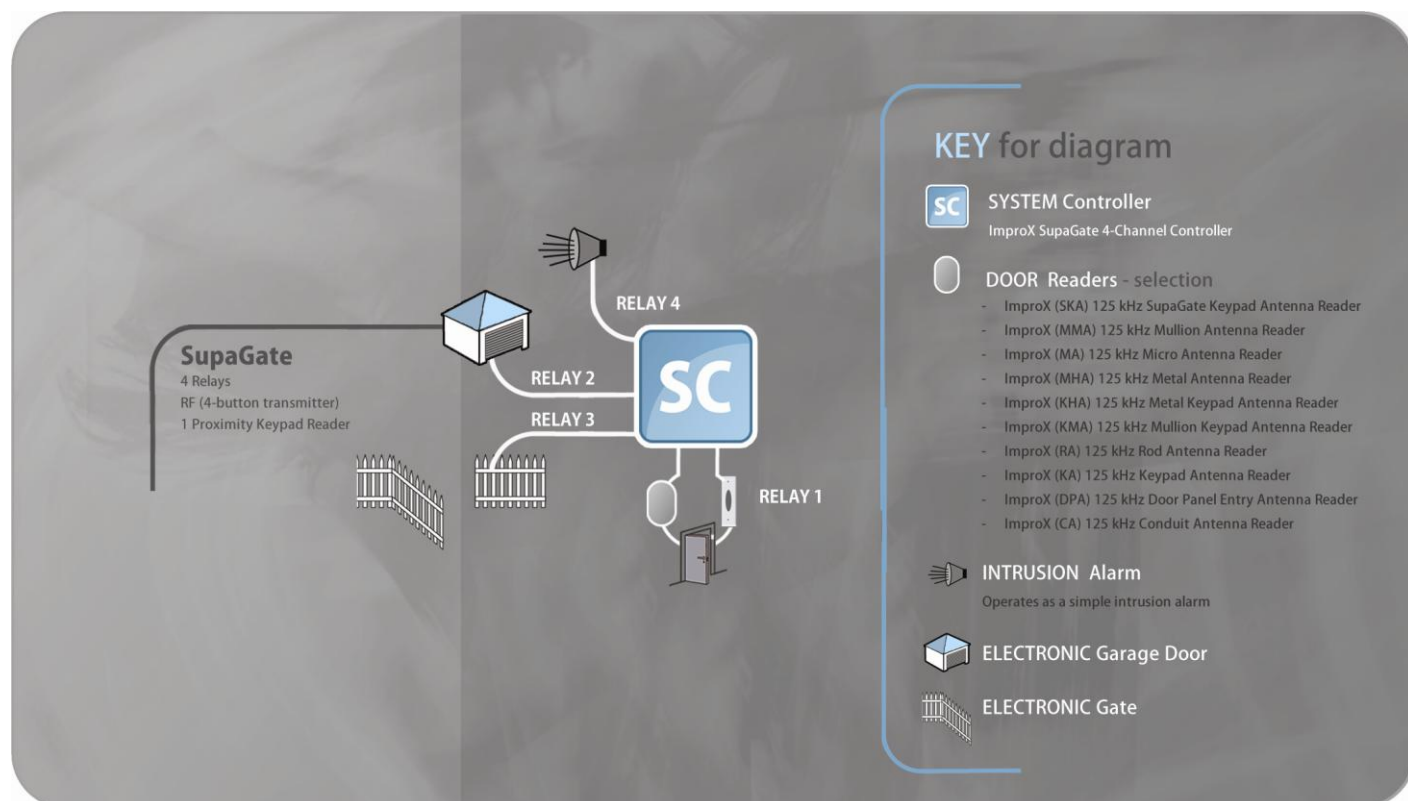


Figure 1: ImproX SupaGate Plus Overview

This Product Specification Catalogue applies to the ImproX SupaGate 4-Channel Controller, SGI911-1-1-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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ImproX SupaGate\Product Specification Catalogue\LATEST
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