



ImproX SupaGate Plus

4-Channel Controller

SGI912-1-1-GB-XX

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 2 RF access points and 2 passive access points).
- Supports Tag + PIN-code.
- Supports Dynamic Code Transmission Technology, for added security when used with ImproX (QT) Quad Transmitter (XQT904-1-1-GB-XX).
- 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 and the full range of 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).
Height	: 44 mm (2 in) (including Standoffs).
Approximate Weight	: 204 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 Plus is designed to work in an indoor or protected outdoor environment similar to IP20. The SupaGate Plus is, therefore, NOT sealed against water.
Drop Endurance	: 2 m (7ft) drop (in packaging).

ImproX SupaGate Plus

Product Specification Catalogue

The **ImproX SupaGate Plus 4-Channel Controller** is the versatile complete answer to entry level access control systems. The SupaGate plus offers everything needed to control small commercial or upmarket residential premises. The SupaGate Plus offers support for a 4-channel Radio Frequency (RF) Transmitter in addition to two Passive Transponder Antenna Readers. The ImproX (QT) Quad Transmitter supports Dynamic Code Transmission Technology for higher security as well as offering a built-in passive Tag for use on the passive Antenna Readers.

The SupaGate Plus supports the full range of ImproX Antenna Readers giving you an 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.

Where the Keypad Antenna Reader is used, in addition to Tag entry, the System also supports PIN-code only access.

The SupaGate Plus 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.



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ACCESS CONTROL

Electrical Specifications

Power

Input Voltage	: 10 V DC to 14 V DC.	
Power Requirements	Current (mA)	Power (W)
Input Voltage 12 V DC, 1 Antenna Reader, all Relays OFF	: 60	0.72
Input Voltage 12 V DC, 1 Antenna Reader, all Relays ON	: 220	2.64
Input Voltage 12 V DC, 2 Antenna Readers, all Relays OFF	: 100	1.2
Input Voltage 12 V DC, 2 Antenna Readers, all Relays ON	: 260	3.12
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.
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User Interfaces

LED Indicators

7-Segment Displays : 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 (SGI302-0-0-GB-XX).

Ordering Information

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

- SGI912-1-1-GB-XX ImproX SupaGate Plus 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.

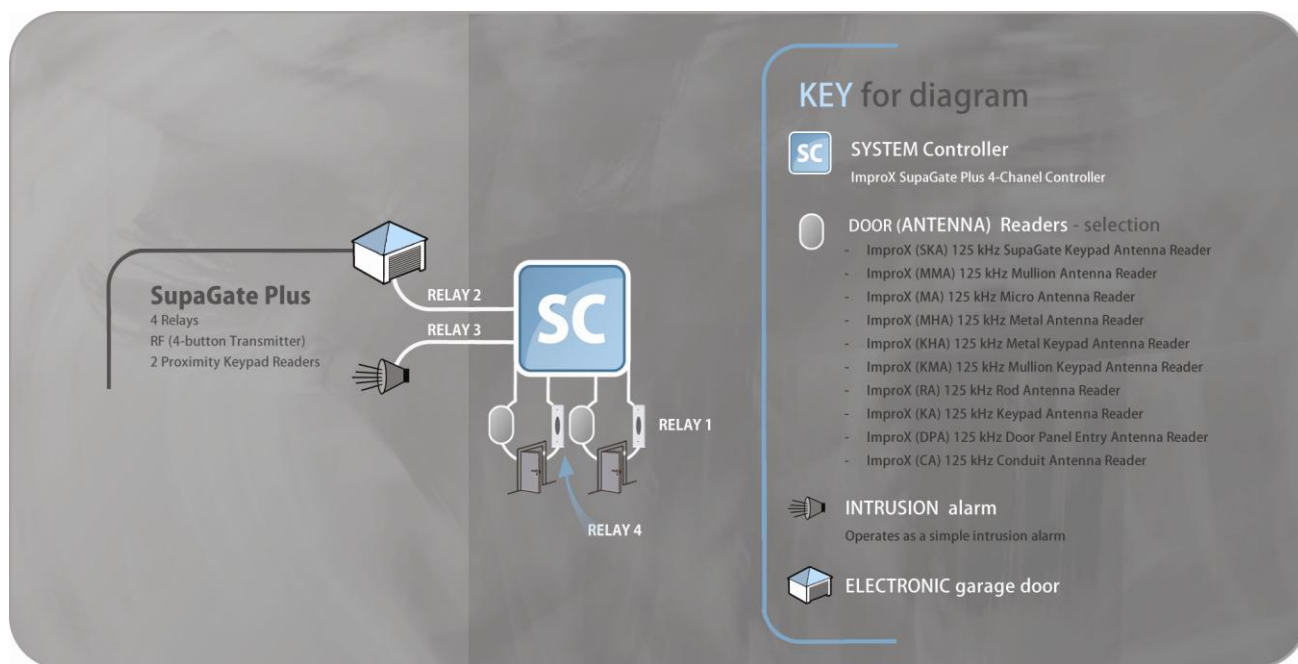


Figure 1: ImproX SupaGate Plus Overview

This Product Specification Catalogue applies to the ImproX SupaGate Plus 4-Channel Controller SGI912-1-1-GB-02.
(The last two digits of the Impro stock code point to the issue status of the document or product).

SGI352-0-0-GB-06	Issue 07	March 2011	ImproX SupaGate Plus/Product Specification Catalogue\LATEST ISSUE\XSupaGt+-psc-en-07.docx
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