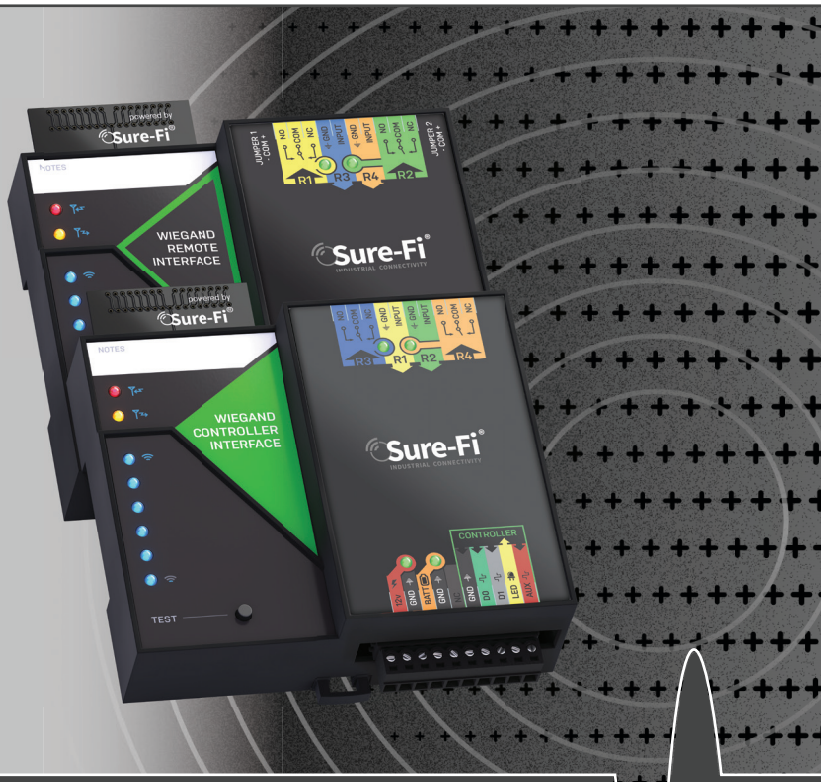
Sure-Fi® INDUSTRIAL CONNECTIVITY

# Wiegand Wireless Bridge
SFK-DS004-WIEGAND

## Wiegand Bridge Kit

A wireless bridge that enables you to wirelessly connect Wiegand-based access control systems, which are often used in security applications. Wiegand systems generally involve cables and wiring to transfer data between a card reader (like an access card scanner) and the control panel that decides whether to unlock a door.

The bridge consists of two parts: a transmitter and a receiver. The transmitter (Remote Interface) is connected to the card reader, which reads access cards or key fobs. When a card is read, the transmitter sends the data wirelessly to the receiver. The receiver (Controller Interface), in turn, is connected to the control panel and sends the data to it, just as if it were wired directly to the card reader.




## Benefits

The benefit of using the Sure-Fi Wiegand Kit is that it eliminates the need for complex and potentially expensive cabling between card readers and the control panel, especially over large distances or through challenging environments. It can be particularly useful in retrofitting older buildings where adding new wiring would be difficult or intrusive.

## Features

- Works with Any Wiegand protocol up to 64 Bits
- 1 Wiegand input
- 2 relay outputs (Wet or Dry) i.e. door strike, gate operator, mag lock, powered crash bars, etc.
- 2 relay inputs i.e. Request to exit (REX), door position sensor (DPS), etc
- UL CERTIFIED SECURITY US-CA
- Worldwide radio bandwith certification

## Items Included

- 1 - Sure-Fi Wiegand Wireless Bridge System, DS004-WIEGAND. Includes one Controller and one Remote Interfaces
- 2 - 12V 2.5A Output Power Supplies with 100-240, 277 VAC Input
- 2 - 6 foot power cords
- 1 - Sure-Fi Screwdriver

5 Year Warranty

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# Wiegand Wireless Bridge

## SFK-DS004-WIEGAND

**The Wiegand System features cutting-edge technology for precise, dependable, and wireless integration with Wiegand access control setups.**

**Worldwide Certification:**
This exclusive module is globally certified:
– FCC – CE – UKCA – IC – ANATEL – UAE
– BSI (India) – APAC – NOM – Israel – Singapore
– Thailand – China – Columbia

**Advanced Barrier Penetration:**
Equipped with a specialized, patented technology, it ensures effective signal transmission even through substantial physical obstructions.

**Remarkable Distance Capability:**
Efficiently communicates over distances up to 1 mile amidst dense barriers and extends beyond 50 miles in clear, unobstructed conditions.

## Specifications

**Operating Voltage**
12VDC

**Operating Current (@12VDC)**
0.05A (idle), 0.3A (transmit)

**Operating Power (@12VDC)**
3.6 Watt (peak)

**Transmit Power**
1 Watt (30dBm)

**Frequency Band**

**US - CANADA - MEXICO**
902.50 - 927.35 MHz

**INDIA**
865.1 - 866.9 MHz

**UAE**
863.2 - 869.8 MHz

**EU**
863.050 - 869.950 MHz

**BRAZIL**
902.0 - 907.4 MHz
915.2 - 927.6 MHz

**AUS**
915.400 - 927.600 MHz

**JAPAN**
920.600 - 923.400 MHz

**KOREA**
917.100 - 920.300 MHz

**THAILAND**
920.1 - 924.9 MHz

**CHINA and SINGAPORE**
920.625 - 924.375 MHz

**COLOMBIA**
915.10 - 927.35 MHz

**Frequency Modulation**
CHIRP Spread Spectrum

**Channels**
72 (Frequency Hopping)

**Receiver Sensitivity**
-133dBm with Rolling Encryption Keys

**Link Budget**
163dB

**Encryption**
AES128

**Range**
Up to 1 mile through obstructions and 50+ miles line-of-sight

**Battery Backup Connection**
12V Sealed Lead Acid (SLA) type only

**Battery Charge Voltage**
13.75V maximum at standby

**Relays**

| | |
|---|---|
| Relays - Controller Interface: | Two Form C relays; 30VDC/30VAC, 1A, 60W/125VA |
| Relays - Remote Interface: | Two Form C solid state relays: 30VDC/30VAC, 1 A‖Max combined current 2A, Inductive |
| Relays - Remote Interface (Wet): | 10.42 - 12VDC special application, 1A Inductive (logic. Relays JP1/JP2 and VBUS: 2A combined) |

**Operating Temperature**
-40 F to +185 F (-40 C to +85 C)

**Storage Temperature**
-67 F to +257 F (-55 C to +125 C)

**Mounting Options**
DIN (35mm x 7.5mm) or directly mount with two screws

**Wiegand Controller Interface**


4.2"

4.2"

**Wiegand Remote Interface**


4.2"

4.2"