

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 bandwidth 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

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

900 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, 1A 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

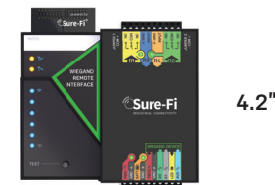
DIN (35mm x 7.5mm) or directly mount with two screws

Wiegand Controller Interface



4.2"

Wiegand Remote Interface



4.2"