



INVID-WIRELESSWIEGANDX

Universal Wireless Wiegand Point To Point Bridge Device

Features

- 3281 ft (1000m)
- Cheaper than Trenching
- Minimal Latency
- High Encryption 256bit
- Transparent For Access Control
- Web-Based Interface

Device Specifications		
Processor	ESP32-S3	
Over-the-air (OTA) update	Yes	
Built-in web server	Yes	
Communications		
Wi-Fi***	802.11 b/g/n 2.4 GHz	
Radio	868/915 MHz	
Wiegand	2 ports	
Open Supervised Device Protocol (OSPD) via RS-485	1 ports	
USB ports (Type-C)	Yes	
Physical connections	Gate Device	Edge Device
Exit button (REX)	Outputs 4	Inputs 4
Door position sensor (DPS)	Outputs 4	Inputs 4
Locks	Inputs 4	Relay 4
Tamper G-sensor	Built-in	Built-in
Emergency Input	n/a	1
Electrical characteristics		
Input voltage	12-24 VDC +/- 10 %	
Operation current (MAX) 12 volts direct current (VDC)	0.5 A (6 W)	
Operation current (AVG) 12 VDC	0.2 A (2.4 W)	
Relay contact rating 30 VDC	1.5 A (45 W)	
Output short-circuit protection	Yes	
Power supply reverse polarity protection	Yes	
Wiegand/Card Reader power VDC each	0.5 A	
Work distance		
RS-485 *	3281 ft (1000 m)	
Wiegand	328 ft (100 m)	
Wi-Fi 2.4 GHz (open space)***	4-8 ft	
Radio 868/915 MHz	3281 ft (1000 m) **	
Environmental requirements		
Operating temperature	-22°F ~ 158°F (-30°C ~ 70°C)	
Ingress Protection rating	IP50	
Physical characteristics		
Housing material	ABS plastic UL94 V-0	
Mounting method	Wall mount/din rail mount (option)	
Dimensions (length, width, height)	5.9" x 3.15" x 1.38" (150 x 80 x 35 mm) (excluding antenna)	
Weight	Edge 4.765 oz (135 g) - Gate 4.308 oz (122 g)	

* See general specifications for RS-485 interface.

** The distance specified is the distance that can be reached when the device is at maximum power. This distance may be lower, however, depending on the surrounding radio environment.

*** Wi-Fi - is not recommended for any long range communication, short range only (4-8 feet). 2.4Ghz Wi-Fi only.

Wi-Fi is recommended for configuration, troubleshooting and updates.

Ordering Information

INVID-WIRELESSWIEGANDX: Wireless Wiegand Point To Point Bridge Device

InVid Tech, reserves the right to make changes to improve our products at any time without notice; we are not responsible for misprints.

INVID-Wireless-Wiegand "WW" device kit enables the connection of peripheral devices such as readers, electric locks, door position sensors, and exit buttons to the access-control controller unit, covering a range of up to 3,281 feet (1,000 meters) with no need for communication cables.

INVID-Wireless-Wiegand "WW" devices included in the kit are pre-configured and ready for immediate use. Further configuration of the kit can be performed through the integrated web interface accessible via the built-in Wi-Fi*** access point. The utilization of packet encryption ensures data security during transmission over the radio channel.

INVID-Wireless-Wiegand has the capacity to connect with up to two readers, code keypads, or their combined versions using various Wiegand bit formats, including 4, 8, 26, 32, 33, 34, 35, 36, 37, 40, 42, 48, 56, 64, 72, and 80 bits.

The device is equipped with relay outputs for controlling locks or other devices, inputs for managing exit buttons and door opening sensors, and auxiliary contacts for local emergency locking/unlocking.

The device establishes a connection with the controller unit and is equipped with suitable inputs and outputs for this purpose.

WW-Edge Device Connection Terminals



WW-Gate Device Connection Terminals

