



W2USB

ETConcept

Product Data Sheet
(V 1.0)

Wiegand to USB Converter

The W2USB model is part of the W2X family of bidirectional wiegand converters developed to interconnect security equipments. The W2X family have a autodetection feature allowing the connection to any standard controller or reader without any previous configuration or setup procedure, this feature speeds up the installation process. With the anodized aluminium enclosure these units are the most robust on the market.

General Characteristics

W2USB's automatically configuration feature will speed up the installation process and readiness of the overall system.

This converter supports a wide range of Wiegand formats, from 6 to 96 bits long, allowing the connection to any reader or controller on the market.

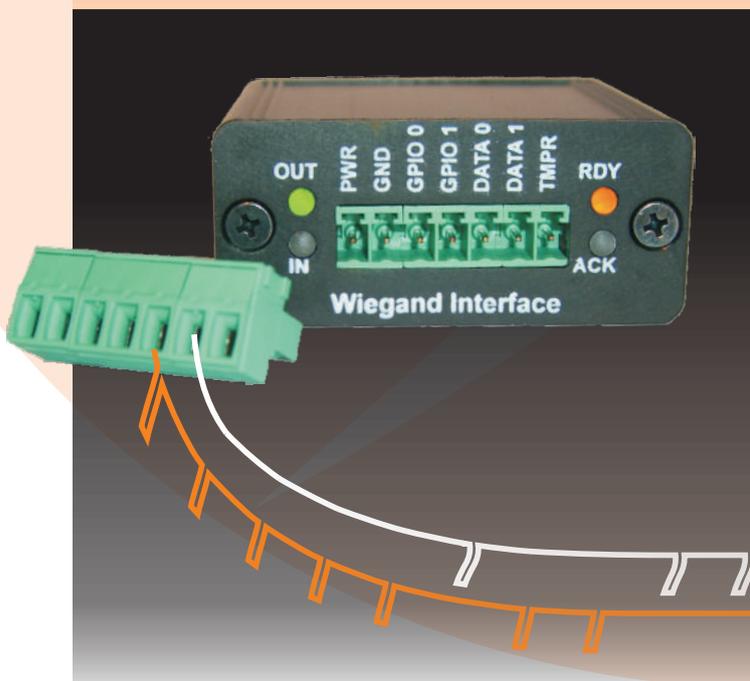
It's possible to control the LED and Beep signals through the W2USB's general purpose I/O ports (GPIOs)

Tamper port (TMPR) is used to monitor tamper signal from readers or controllers, or it can be reconfigured to a general purpose I/O port.



Main Features

- Bidirectional converter
- Autodetect Wiegand device (Controller/Reader)
- Support Wiegand formats from 6 to 96 bits
- Up to 3 general purpose I/O ports.
- Anodized aluminium enclosure.



**Product Specifications**

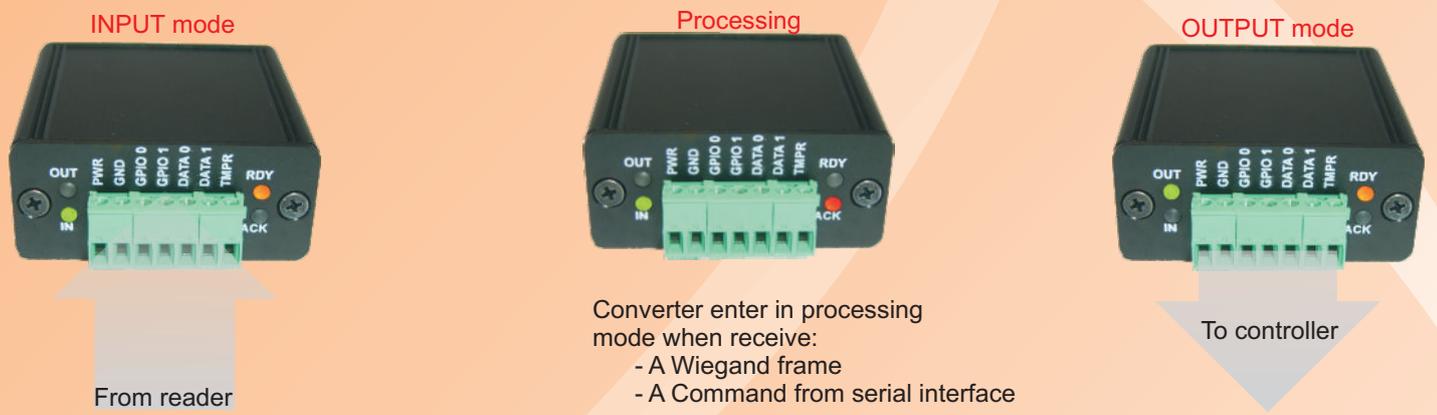
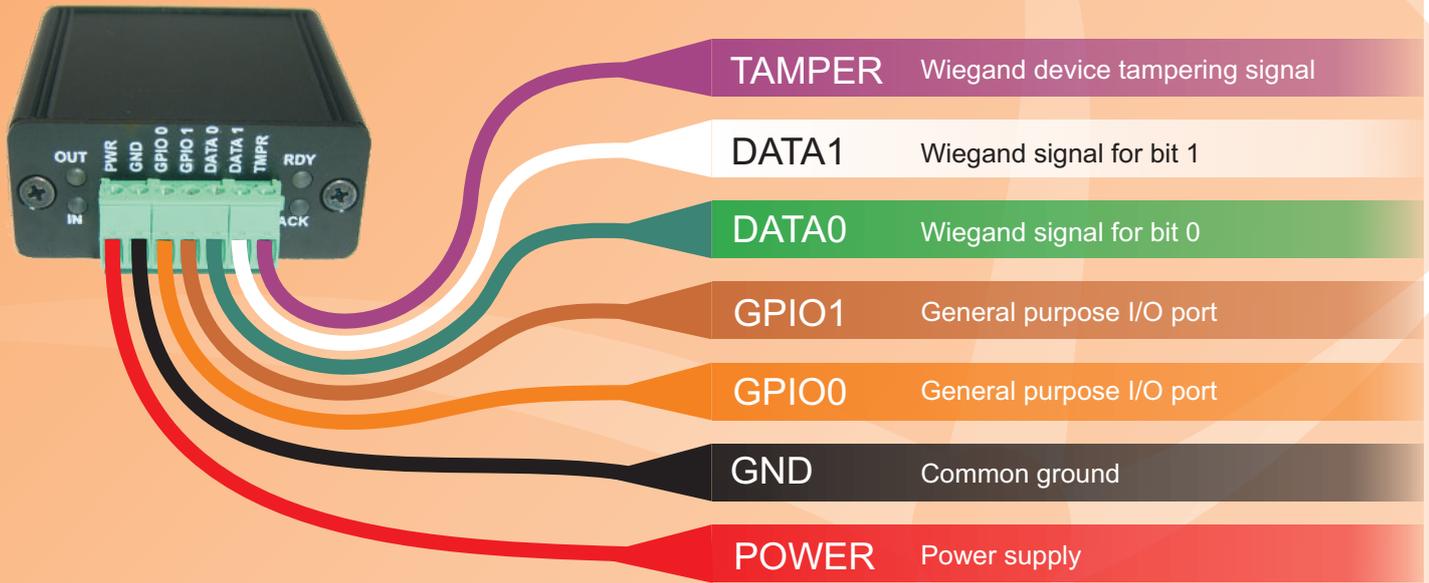
Electrical Characteristics	
Operating Voltage Range	(Power from USB connection)
Current Consumption	Typ. 30mA
Environmental Characteristics	
Operating Environment	Indoor and Outdoor ¹⁾
Operating Temperature Range ²⁾	0°C to 70°C
Operating Humidity	0 - 95% (non-condensing)
Storage	-40°C - 70°C and 0 - 95% (non-condensing)
Wiegand Interface	
Wiegand Format Length	From 6 bits to 96 bits
Idle Period between Wiegand frames	Min. 30ms
Wiegand Pulse Width	Min. 50µs and Max. 200µs
Wiegand Bit Period	1ms, 2ms
General Purpose I/O	2
Tamper Signal	1 (Can be configured to general purpose I/O port)
USB Interface	
Communication Distance	Up to 5m
Communication Modes	Full-Duplex without flow control
Baud Rate ³⁾	9600
Mechanical Characteristics	
Weight	75 g
Dimensions	55 mm x 72 mm x 24 mm
Enclosure material	Anodized Aluminium

NOTES:

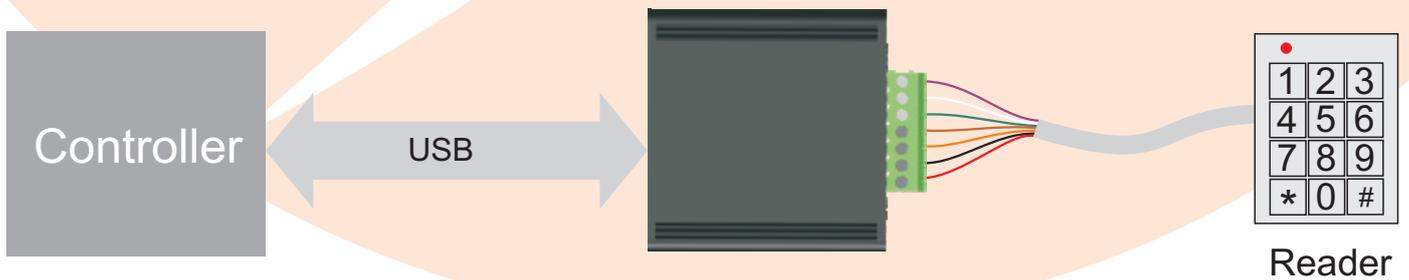
- 1) The Converter shouldn't be directly exposed to sunlight or rain.
- 2) Can be manufactured for different temperature range.
- 3) Other BaudRates can be supplied.



Interfaces Connections



System connections diagram





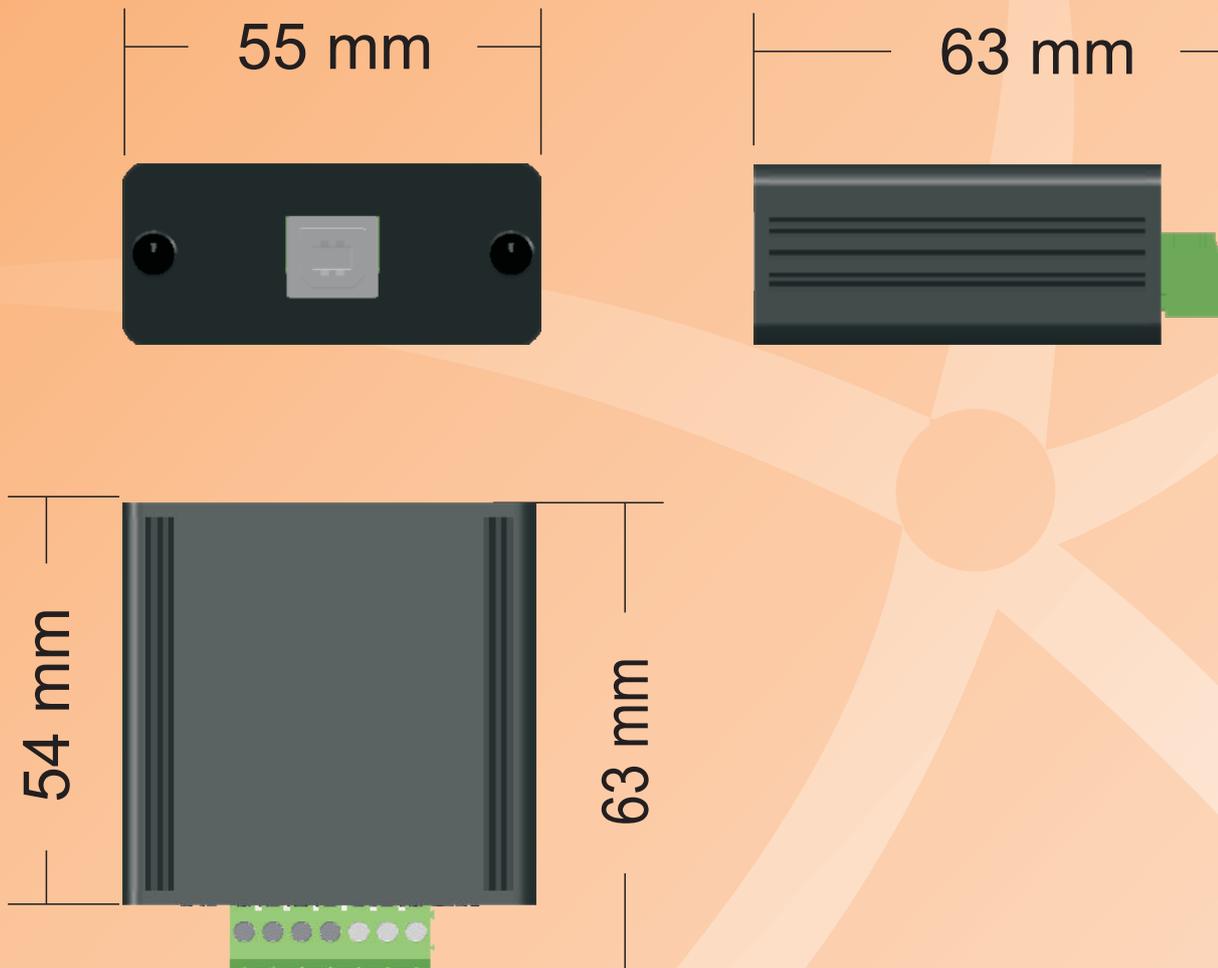
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Mechanical Specifications



Contacts

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