



INTEGRATED MAGNETICS



BlueWire

Wireless Card Reader Interface



BlueWire consists of a set of paired Bluetooth-enabled wireless transceiver modules. These low-cost paired modules fill a gap in the access control market by addressing remote, difficult, or costly applications with an inexpensive and highly secure point-to-point wireless connection.

BlueWire facilitates quicker and easier installations and opens up an array of new possibilities for remote monitoring and access control applications.

TRANSMISSION UP TO 100 METERS (328 FT) OR MORE



THROUGH - WALLS / FLOORS / CEILINGS

Applications & Benefits

Connects remote buildings or locations inexpensively

Eliminates costly drilling and wiring through:

- Walls

- Floors

- Ceilings

Ideal replacement for difficult or costly areas of an installation

Include "BlueWire" to produce a cost effective proposal



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HOW BlueWire WORKS

BlueWire consists of two paired modules. One module is connected to the door peripherals at any entrance. The other transceiver module is connected to the host reader interface module. The two **BlueWire** modules then communicate back and forth wirelessly using a full duplex format from Weigand to RF and back to Weigand seamlessly.

BlueWire provides complete remote capabilities for a single door application.

WIRELESS SECURITY

Each **BlueWire** pair comes with built-in 128-bit encryption. In addition, Bluetooth utilizes a channel hopping scheme that transmits data over 79 channels @ 1600 times per second, making it virtually impossible to decipher

WIRELESS RANGE

BlueWire utilizes a Class 1 Bluetooth module with an output power of 100mW, which yields a range of 100 meters (328 ft) or more with a clear line of site. Range can be extended to well over 5 km.

A WINNING PROPOSAL

Given the right application, this product offers a multitude of advantages, including a substantial reduction in installation cost and an increase in flexibility, reliability and security. **BlueWire** utilizes Bluetooth technology to produce a winning solution for many different applications.

INNOVATION

Integrated Magnetics Inc is a secure wireless solutions provider, creating innovative wireless data communication products that meet and exceed the requirements of our customers.

TECHNICAL SPECIFICATIONS

COMMUNICATIONS

BlueWire provides a full duplex, seamless, point-to-point wireless transmission using Bluetooth technology capable of data rates up to 721 Kbit/sec.

BlueWire provides 4 inputs controlling 4 relay outputs on its opposing module, and is fully compatible with Weigand signals up to 50 bits.

SECURITY

- 128-bit encryption in each Bluetooth packet
- Device Authentication using Link Keys
- NSA Approved version available

ELECTRICAL

Primary Power	24/12Vdc ± 15%, 350mA
Communications	Bluetooth wireless
Frequency Range	2.402-2.480 GHz (using GFSK)
Channels Spacing	79 @ 1MHz intervals
Antenna Output	100 mW

MECHANICAL

Dimensions	5.00"W x 7.00"L x 1.00"H (127mm x 178mm x 25mm)
Enclosure	9.50" W x 12.00"L x 4.00"H (241mm W x 305mm L x 102mm H)

ENVIRONMENTAL

Temperature	0-70 °C operational
Humidity	0 to 95% RHNC

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