



Industrial Wireless Relay - XB (XBX-CTRFP-4)

Reliable, Easy-to-use Long Range Remote Control

The Industrial Wireless Relay provides long range control between I/O devices (such as lights, switches, sensors, pumps, fans, PLCs, etc.). Control inputs are compatible with either dry contacts or DC signal voltages, logic signals, etc.



**Remotely Control Devices
from a Mile Away!**

RELIABLE RANGE

- Long Range (up to 1 mile)
- -100 dBm Receiver Sensitivity (@250 kbps)
- ZigBee™ / 802.15.4 RF Protocol
- 60mW (100 mW EIRP) Power output

EASY-TO-USE

- Sold in pre-configured pairs
- Digital on/off, input/output interface
- I/O Line Passing
- Built-in relay / dry-contact passing

SPECIFICATIONS

Range	up to 1 mile (RF line-of-sight) up to 1,000' (residential) up to 300' (urban/industrial)		
Operating Frequency	2.4 GHz (DSSS - Direct Sequence Spread Spectrum)		
Receiver Sensitivity	-100 dBm		
Transmit Power	60mW (100mW EIRP w/ high-gain antenna)		
Supply Voltage	8-30 VDC, 8-28 VAC (3.3 V option avail., contact technical support)		
Relay Output Rating	0-30 VAC or VDC, 2A Form A (normally open, SPST)*		
Interface	Dry contacts (4 inputs, 4 outputs) Inputs also support DC voltage, 0-30 VDC output relay will be closed for an input voltage > 3V, open when < 1V. TTL & CMOS logic compatible		
Typical latency	5 ms (input to output between units)		
Polling update rate	1 second		
Receiver timeout	10 seconds (If connection is lost for this length of time, all relays will open.)		
Typical supply currents (with LEDs enabled)	Supply Voltage	All I/O off	All I/O on
	9VDC	46 mA	115 mA
(with LEDs disabled)	12VDC	34 mA	81 mA
	24VDC	18 mA	40 mA
Dimensions	9VDC	45 mA	100 mA
	12VDC	34 mA	71 mA
	24VDC	18 mA	36 mA
Dimensions	4.200"(W) x 2.800"(H) x 1.125"(D) 10.7cm x 7.2cm x 2.9cm		
Certifications	FCC: OUR-XBEEPRO IC: 4214A-XBEEPRO		

NETWORK DIAGRAM

Sample Application

The integral relays can interface directly to PLCs (automated control) or switches (manual control).



Instant Gratification! The relays come configured to provide reliable out-of-box wireless communications.

SAMPLE APPLICATIONS



Virtually any ON/OFF electronic device can be controlled remotely using a pair of wireless relays.

- Lighting Control
- Traffic control
- Security
- Conveyors
- Hydraulic Valves
- Pump Stations
- Electronic Signs
- Factory Automation

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**AD HOC
CONTROLS™**

* Note that by configuring an input with a pull-up, the corresponding relay will appear to be Form B (normally closed); but if a signal is lost, the relay will open after 10 seconds. Contact Ad Hoc Electronics if Form C relays are desired.

Control inputs are configurable with internal pull-up or pull-down to enable either normally open or normally closed at the receiver. In these modes, the inputs can be controlled with a dry contact (a switch without any supply voltage connected). Refer to the user manual for more information.