

# Wireless Beacon Control Unit

900 MHz  
WIRELESS BEACON CONTROL



## Example Application

WBCU wired to School Zone Flashing Beacon communicating over 900 MHz frequency with one of the Harmony Gateway products connected to local IP or cellular network.



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[www.encomwireless.com](http://www.encomwireless.com)

The **Wireless Beacon Control Unit (WBCU)** is Encom's simple to integrate and reliable in-cabinet solution for applications requiring scheduled On/Off control functionality. It's perfect for:

- ✓ commercial vehicle inspection station flashing beacon
- ✓ traffic signal pre-emption systems
- ✓ school zone speed limit or pedestrian flashing beacons

The WBCU is equipped with a CPC connector that makes it quick and easy to retrofit aging beacon systems.

When deployed in areas with a high level of RF 'noise', the 900 MHz Frequency Hopping Spread Spectrum technology ensures a strong connection in challenging environments.

## KEY FEATURES

- 900 MHz FHSS integrated radio provides long range wireless connectivity
- 365-day calendar scheduling
- Calendars permanently stored in the device allow for autonomous operation
- Automatic clock synchronization with 2 second tolerance
- Auto DST and leap year adjustment
- LED indicator provides visual confirmation of schedule activation
- Event logging capabilities
- Historical I/O changes data in any input or output
- Extra inputs for pedestrian crosswalk push button



## STRATOS ELITE



## TYPICAL APPLICATION



### GENERAL SPECIFICATIONS

Input Power	6-30 VDC or 120 VAC
Power Consumption	Typical @12 VDC Repeater = 76 mA Remote = 12 mA
Operating Temperature	-40°F to 176°F (-40°C to 80°C), up to 95% humidity
Enclosure	Milled Aluminum, Black Powder Coat 4" W x 1.5" H x 8" D
Weight	24 oz.

### INTERFACE SPECIFICATIONS

Programming Port	USB or DB-9 male (RS-232) port
Data and Power	CPC quick connector
Wireless	Reverse Polarity TNC Male
Outputs	2 SPDT relays rate 15 Amp 12 VDC or 120 VAC resistive loads

### ORDERING OPTIONS

- **WBCU**: 900MHz FHSS includes (1) A/C Cable, (1) USB A to Mini B cable, 6 ft.

### RADIO SPECIFICATIONS

Technology	Frequency-hopping spread spectrum (FHSS) with repeater capability
Frequency Range	902-928 MHz, ISM Band
Output Power	1 mW, 10 mW, 100 mW, 1W
Receiver Sensitivity	-110 dBm @ 10-6BER
Available Hop Patterns	64
Number of RF Channels	128
RF Channel Spacing	200 KHz
Error Checking	32-bit CRC
Encryption	32-bit
Memory	Non-volatile
Antenna Port	RP TNC-F
Time Sync	Synchronizes w/ Gateway every 2 secs.
Certification	FCC, Industry Canada
Software Programmable	Yes
Operating Mode	Remote or Repeater
System Configuration	Point-to-Multipoint w/ repeaters

\*ENCOM Broadband radios require professional installation.

Specifications subject to change without notice. Visit [www.encomwireless.com](http://www.encomwireless.com) for updates.

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