# 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.



Configuring, Controlling and Monitoring your Encom equipment is EASY with ControlPAK and Stratos I/O!







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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

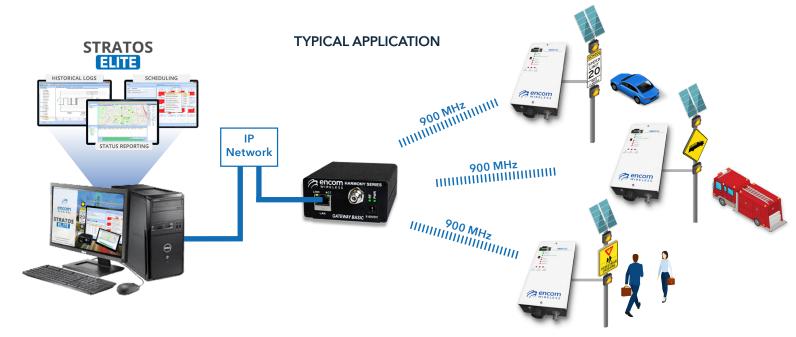
The WBCU is equipped with a CPC connector that makes it quick and easy to retrofit aging beacon systems.

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 ouput
- Extra inputs for pedestrian crosswalk push button





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	

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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 for updates.

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