

# COMMPAK I/O8

## WIRELESS CONTACT CLOSURE



### Example Network Application

Two Commpak I/O8 devices communicate with a Harmony IP Gateway over 900 MHz frequency. Ethernet controller connected to the Harmony IP Gateway operates the flood warning beacon and advance warning sensor.



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



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

The **COMMPAK I/O8** is a digital input/output device specially designed for wireless On/Off control and detection applications. Its 900 MHz frequency hopping spread spectrum (FHSS) radio provides reliable bi-directional long-range communications of up to 20 miles (line-of-sight), and the ability to confirm remote switch closure.

Each of the 8 digital outputs can be programmed to run either on schedule or on demand. This eliminates the need for timer relays and considerably reduces installation complexity and cost. Our configuration and management software also provides support for Point-to-Point or Point-to-Multipoint deployment, giving the I/O8 infinite routing possibilities.

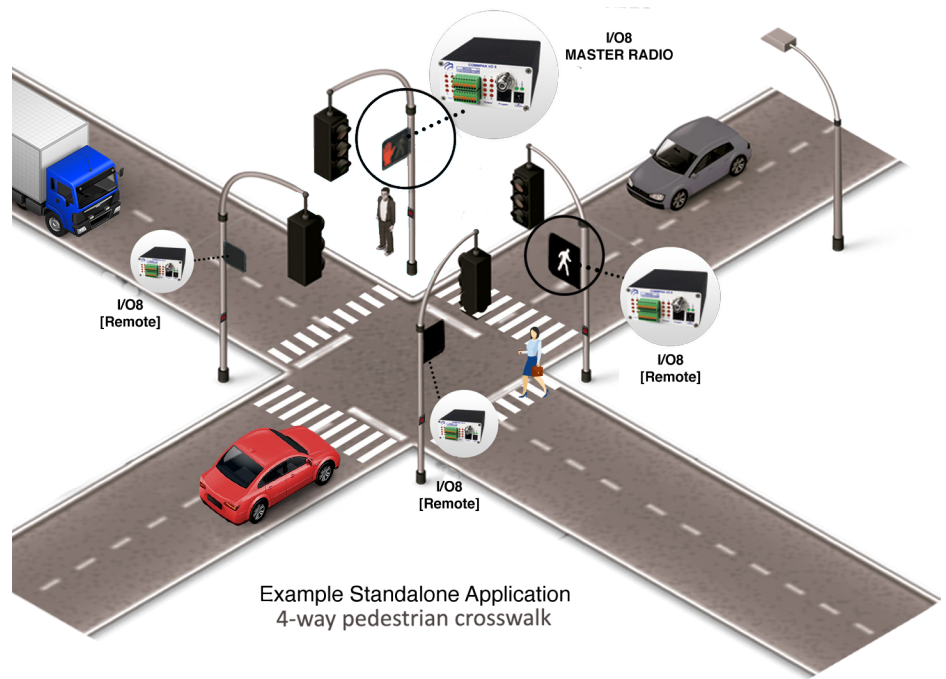
### KEY FEATURES

- 8 digital inputs + 8 digital outputs
- Extensive delay timing functions available for each input/output
- Integrated real-time clock with maintenance-free super cap backup and automatic DST / leap year adjustment
- 2 configurable operating modes available: Network or Standalone
- Extensive security features
- *Additional functions become available when used with Stratos Elite and Encom Gateway products...*
  - ✓ 365-day calendar scheduling
  - ✓ Spectrum analyzer + link diagnostics
  - ✓ NTP server clock synchronization
  - ✓ Remote schedule change & override
  - ✓ Plus much more!



## TYPICAL APPLICATIONS

- Manual or scheduled control of:
  - ✓ Lighting
  - ✓ Traffic warning signs
  - ✓ Electronic door locks & gates
  - ✓ Wide area irrigation systems
  - ✓ Electric pumps, motors, fans, etc.
  - ✓ Backup power supplies
- Intrusion detection for doors, windows
- Extending input/output from traffic controllers to other devices
- Pedestrian push buttons with remote monitoring & override capability
- Advance warning for high water under bridges or detecting over-height trucks



Example Standalone Application  
4-way pedestrian crosswalk

### GENERAL SPECIFICATIONS

Input Power:	6-30 VDC or 100V-240VAC
Power Consumption:	10 mA @ 12VDC (configured as Remote)
LED indicators:	PWR, RF Link, Input 1-8, Output 1-8
Operating Temperature:	-40°F to 176°F (-40°C to 80°C), up to 95% humidity RHNC
Enclosure:	Aluminum, Black Powder Coated 4.75" W x 1.73" H x 3.75" D

### RADIO SPECIFICATIONS

Technology:	Frequency-hopping spread spectrum (FHSS) with repeater capability
Frequency Range:	902-928 MHz, ISM Band
Output Power:	1mW, 10mW, 100mW, 1000mW
Receiver Sensitivity:	-110dBm @ 10-6BER
Error Checking:	32-bit CRC
Encryption:	32-bit
Antenna Port:	RP TNC-F
Certification:	FCC, Industry Canada

### CONNECTIVITY

Programming port	RJ12
900 MHz Radio	Yes
Configuration, Monitoring & Control	Stratos IO and ControlPAK
Protocol	Proprietary

### ORDERING OPTIONS

The CommPAK I/O8 only comes in one configuration.

- COMMPAK I/O8: 8 in, 8 out Wireless Contact Closure Transceiver

### INDUSTRIAL I/O

Digital Inputs:	8
Digital Input Range:	0-30V (Ground activated)
Digital Outputs:	8
Digital Output Range:	Open Collector (3-30VDC, max. 500mA)
I/O Connectors:	3.81mm Quick-release Terminal Block x2 (cable max. 14 AWG)
Hardware Real Time Clock	Yes
Supercap backup	Yes
I/O Logging	Yes (Requires Stratos Elite and a Gateway Basic)

### SCHEDULING FUNCTIONS (\*available with STRATOS Elite)

Number of calendars	16*
Calendar periods	365 days*
Event / calendar	16 (8 on/8 off)*
Manual override	Yes

\*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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