

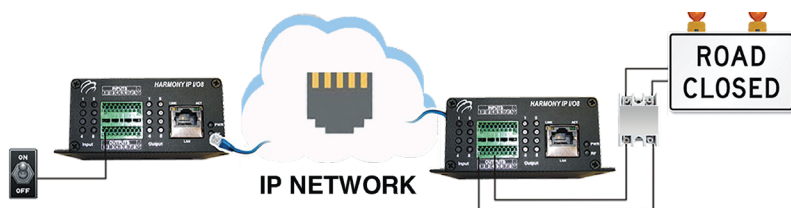
# HARMONY IP I/O8

## ETHERNET GATEWAY I/O CONTROLLER



### Example Application

Two Harmony IP I/O8 devices linked over Ethernet network. Main switch connected to unit on the left remotely operates Road Closed flasher sign connected to unit on the right.



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



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

The **HARMONY IP I/O8** is a self-contained digital input/output device that **enables remote monitoring and control of other Harmony devices** with simple On/Off switch connections over an IP network.

**With 8 inputs and 8 outputs**, any device within the system can be used to control one or a group of outputs within the entire system using Encom's proprietary "I/O mapping" technology, through your IP network or optional 900 MHz radio.

Our **simple web-based interface** lets you configure, control and check the status of every Encom device on your network—**no other software is required**.

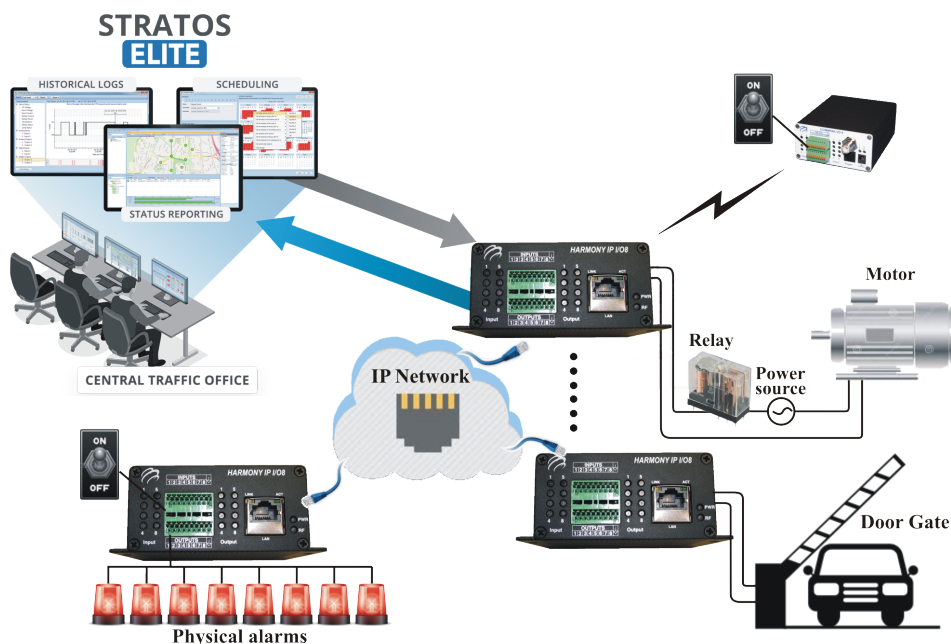
### KEY FEATURES

- Built-in 8 digital inputs & outputs
- Flexible input/output mapping over LAN or *optional* 900 MHz Frequency Hopping Spread Spectrum radio
- Extensive delay timing functions available for each input/output
- Event logging capability
- Cellular modem ready
- Uses SNMP or Stratos I/O for real time alerts and monitoring functions
- Additional functions become available when used with Stratos Elite such as...
  - ✓ 365-day calendar scheduling
  - ✓ Integrated real-time clock
  - ✓ NTP server clock synchronization
  - ✓ Remote schedule change & override
  - ✓ Plus much more!



## TYPICAL APPLICATIONS

- Manual or scheduled control of:
  - ✓ Lighting or luminaires
  - ✓ Traffic warning signs
  - ✓ Electronic door locks, gate openers
  - ✓ Wide area irrigation systems
  - ✓ Electric pumps, motors, fans, etc.
  - ✓ Electric outlets and power supplies
- Intrusion detection for doors, windows
- Extending input/output from traffic controllers to other devices via LAN
- 4-corner pedestrian push buttons with remote monitoring & override
- Advance under bridge warning for high water or detecting over-height trucks



### GENERAL SPECIFICATIONS

|                        |  |
|------------------------|--|
| Input Power:           | 6-30 VDC   |
| Power Consumption:     | 150 mA @ 12VDC   |
| LED indicators:        | PWR, RF Link, Input 1 to 8, LAN-ACT and LAN LINK           |
| Operating Temperature: | -40°F to 176°F (-40°C to 80°C), up to 95% humidity RHNC    |
| Enclosure:             | Aluminum, Black Powder Coat<br>4.75" W x 1.73" H x 3.75" D |

### OPTIONAL 900 MHz 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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Ethernet Port (10/100Base-T)        | 1                                   |
| 900 MHz Radio                       | Yes (not available in NR model)     |
| Configuration, Monitoring & Control | Stratos IO, ControlPAK, SNMP, WEBUI |
| Protocol                            | HTTP, SNMP V1, V2 & V3, SMTP        |

### ORDERING OPTIONS

The Harmony IP I/O8 can be configured with or without a radio.

- IP I/O8: 8 In, 8 Out Ethernet Gateway I/O Controller **with built-in 900MHz FHSS Radio**
- IP I/O8 NR: 8 In, 8 Out Ethernet Gateway I/O Controller-**NO RADIO**

### 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 Logging:          | Yes  |
| I/O Connectors:       | 3.81mm Quick-release Terminal Block x2 (cable max. 14 AWG) |

### 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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