

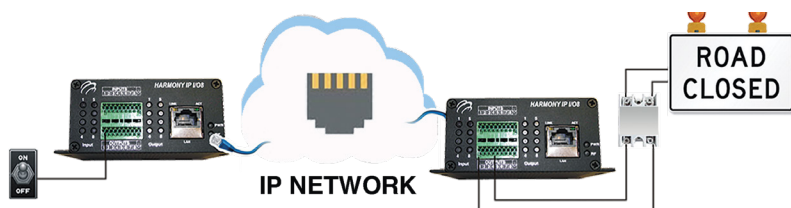
# HARMONY IP I/O8

## 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!**



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

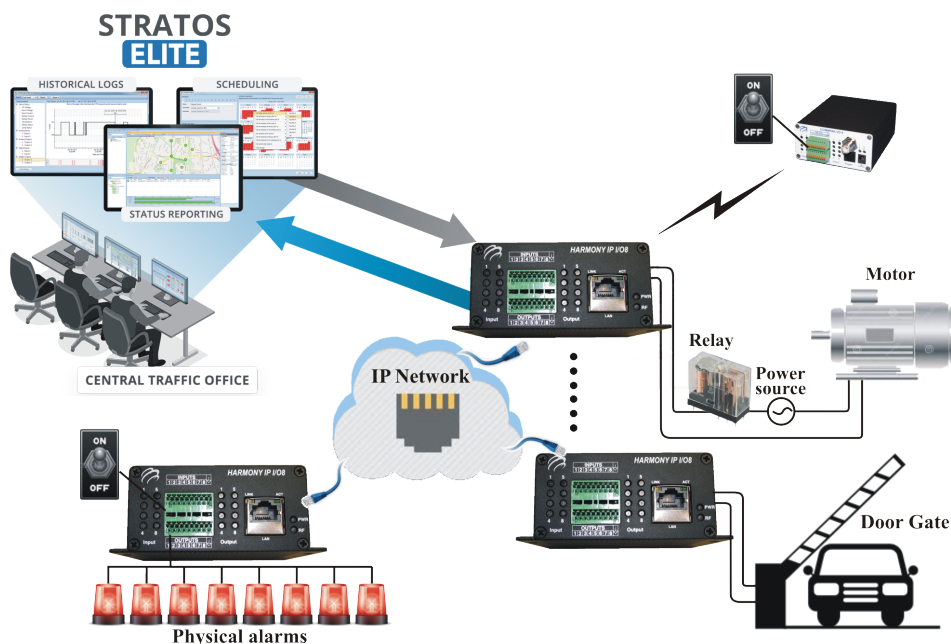
- Built-in 8 digital inputs & outputs
- Flexible input/output mapping over LAN or *optional* 900 MHz Frequency Hopping Spread Spectrum radio
- Extensive delay timing functions available for each input/output
- Event logging capability
- Cellular modem ready
- Uses SNMP or Stratos I/O for real time alerts 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!

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

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## 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 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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