

HARMONY Gateway Advanced I/O

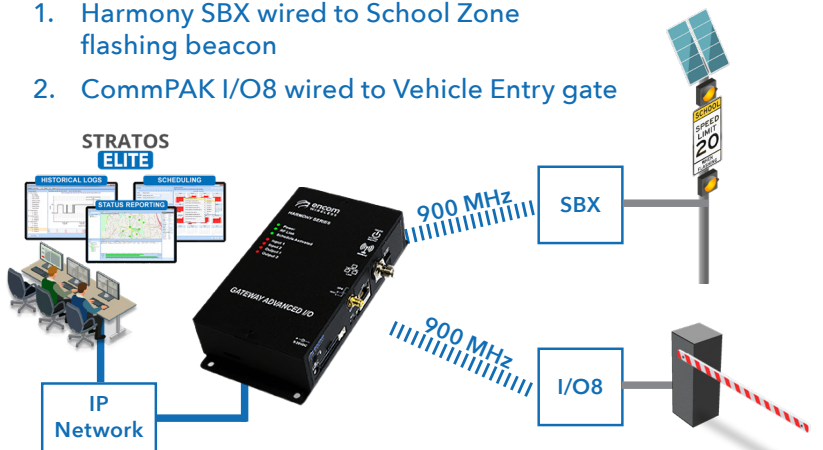
WIRELESS ETHERNET GATEWAY + I/O



Example Application

Gateway Advanced I/O connected to IP network communicating over 900 MHz frequency with:

1. Harmony SBX wired to School Zone flashing beacon
2. CommPAK I/O8 wired to Vehicle Entry gate



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The **GATEWAY ADVANCED I/O** provides remote monitoring and control functions and is perfectly suited to:

- ✓ act as a master gateway between a user's network and a larger network of 2 or more remote devices
- ✓ provide both gateway and I/O capabilities to a single site, consolidating cost and equipment
- ✓ intelligently monitor both analog and digital inputs and trigger different kinds of outputs

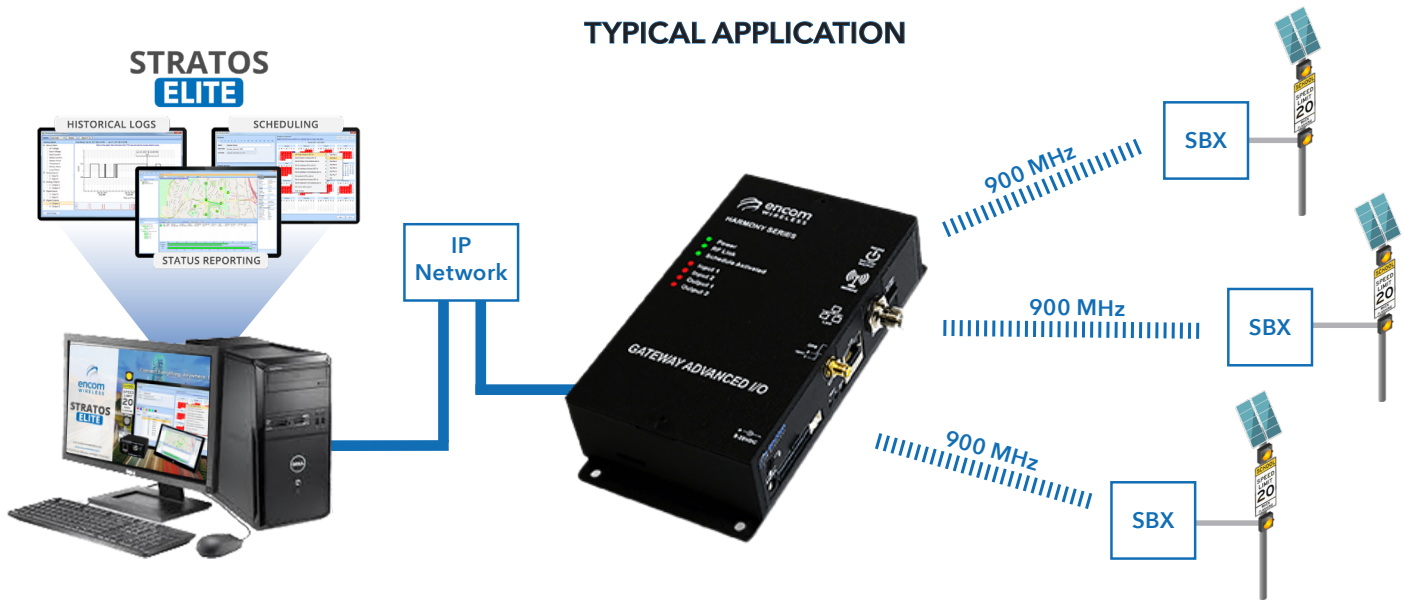
Each unit is equipped with a built-in LAN port for easy connection to a cell modem or IP network and a 900 Mhz FHSS radio to communicate with remotes (SBX, IO8) via RF. The ability to connect to remotes via RF aids in cost efficiency by allowing end users to cut down on the number of cell plans needed in a particular deployment.

KEY FEATURES

- Offers single cellular connection for an entire system
- SNMP enabled for interoperability with other central software systems
- Internal device memory holds up to 16 schedules / 16 events per schedule / 365-day calendar scheduling capacity
- Integrated real-time clock with maintenance-free super cap backup & automatic DST/leap year adjustment
- Precise timekeeping via NTP server synchronization
- Facilitates event logging for other Harmony devices
- Easily change schedules and set temporary overrides remotely



TYPICAL APPLICATION



GENERAL SPECIFICATIONS

Input Power:	6-30 VDC or 100-240 VAC
Power Consumption:	165 mA @ 12 VDC
LED indicators:	PWR, RF Link, Schedule Status, Input 1 to 2, Output 1 to 2, LAN-ACT, LAN LINK
Operating Temperature:	-40°F to 176°F (-40°C to 80°C), up to 95% humidity
Enclosure:	Aluminum, Black Powder Coat 3.75" W x 1.75" H x 7.5" D

900 MHz 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, 1000 mW
Receiver Sensitivity:	-110 dBm @ 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 (Optional in NR model)
GPS	Yes
Configuration, Monitoring & Control	Stratos Elite and ControlPAK, SNMP, WEBUI
Protocol	HTTP, SNMP V1, V2 & V3, SMTP, FTP and DHCP

ORDERING OPTIONS

- **Gateway Adv IO:** Ethernet I/O Gateway Controller w/ 900 MHz FHSS radio
- **Gateway Adv IO NR:** Ethernet I/O Gateway Controller (no radio)
- **BH-3200A:** Harmony CPC Cable Harness (DC only - Standard pinout)
- **BH-3200C:** Harmony CPC Cable Harness (DC only - TXDOT specs)

INDUSTRIAL I/O

Digital Inputs	2
Digital Input Range	0 to 30 V (ground activated)
Digital Outputs	2
Digital Output Range	Open collector (3 to 30 VDC, max. 500 mA) or SPDT 15 amp relay
Analog Input	2, 0 to 50 VDC, 12-bit resolution
Analog Output	2, 0 to 5 VDC, 12-bit resolution
I/O Connectors	Flying leads

REMOTE SITE MONITORING FUNCTIONS

Input voltage and current	monitoring + logging
Beacon lamp On/Off status	monitoring + logging
Beacon lamp On current	monitoring + logging
Solar panel voltage	monitoring + logging
Battery current	charge/discharge monitoring+logging
Temperature	monitoring + logging
Receive signal strength	monitoring + logging
GPS location	monitoring
Beacon lamp fail	detect + alarm
Low battery voltage	detect + alarm
Solar panel disconnect	detect + alarm
Battery disconnect	detect + alarm
A/C power loss	detect + alarm
Integrated battery backup	Yes
Number of calendars	16
Calendar periods	365 days
Event/calendar	16
Manual override	Yes

*ENCOM Broadband radios require professional installation.

Specifications subject to change without notice. Visit www.encomwireless.com for updates.

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