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 speed limit warning beacon
- 2. CommPAK I/O8 wired to Vehicle Entry gate

IP Network

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



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

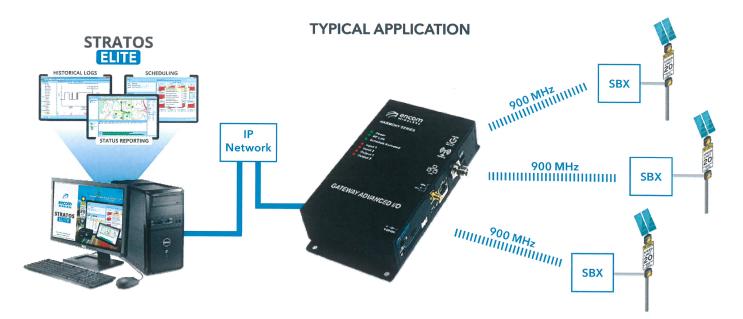
- ✓ act as a master gateway between a user's network and a larger network of 2 or more remote devices
- ✓ provide both gateway and I/O capabilities to a single site, consolidating cost and equipment
- ✓ intelligently monitor both analog and digital inputs and trigger different kinds of outputs

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
- Internal device memory holds up to 16 schedules / 16 events per schedule / 365-day calendar scheduling capacity
- Remote schedule changes/overrides
- Integrated real-time clock with maintenance-free super cap backup and automatic DST / leap year adjustment
- SNMP enabled for interoperability with other central software systems
- Additional functions become available when used with Stratos Elite such as...
 - ✓ Status detection of various functions
 - \checkmark Real time updates and alerts
 - ✓ Centralized monitoring, control & more





GENERAL SPECIFICATIONS		INDUSTRIAL I/O	
Input Power:	6-30 VDC or 100-240 VAC	Digital Inputs	2
Power Consumption:	165 mA @ 12 VDC	Digital Input Range	0 to 30 V (ground activated)
LED indicators:	PWR, RF Link, Schedule Status, Input 1	Digital Outputs	2
Operating Temperature:	to 2, Output 1 to 2, LAN-ACT, LAN LINK -40°F to 176°F (-40°C to 80°C),	Digital Output Range	Open collector (3 to 30 VDC, max. 500 mA) or SPDT 15 amp relay
operating remperature.	up to 95% humidity	Analog Input	2, 0 to 50 VDC, 12-bit resolution
Enclosure:	Aluminum, Black Powder Coat 3.75" W x 1.75" H x 7.5" D	Analog Output	2, 0 to 5 VDC, 12-bit resolution
		I/O Connectors	Flying leads
900 MHz RADIO SPECIFICATIONS		REMOTE SITE MONITORIN	IG FUNCTIONS
Technology:	Frequency-hopping spread spectrum	Input voltage and current	monitoring + logging
En ante Dana de la composición de la composicinde la composición de la composición de la composición d	(FHSS) with repeater capability	Beacon lamp On/Off status	monitoring + logging
Frequency Range:	902-928 MHz, ISM Band	Beacon lamp On current	monitoring + logging
Output Power:	1 mW, 10 mW, 100 mW, 1000 mW	Solar panel voltage	monitoring + logging
Receiver Sensitivity:	-110 dBm @ 10-6BER	Battery current	charge/discharge monitoring+logging
Error Checking:	32-bit CRC	Temperature	monitoring + logging
Encryption:	32-bit	Receive signal strength	monitoring + logging
Antenna Port:	RP TNC-F	GPS location	monitoring
Certification:	FCC, Industry Canada	Beacon lamp fail	detect + alarm
CONNECTIVITY		Low battery voltage	detect + alarm
Ethernet Port (10/100Base-T)	1	Solar panel disconnect	detect + alarm
900 MHz Radio	Yes (Optional in NR model)	Battery disconnect	detect + alarm
GPS	Yes	A/C power loss	detect + alarm
Configuration, Monitoring & Control	Stratos Elite and ControlPAK, SNMP, WEBUI	Integrated battery backup	Yes
Protocol	HTTP, SNMP V1, V2 & V3, SMTP, FTP and DHCP	Number of calendars	16
		Calendar periods	365 days
ORDERING OPTIONS		Event/calendar	16
• Gateway Adv IO: Ethernet I/O Gateway Controller w/ 900 MHz FHSS radio		Manual override	Yes
-	TO 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)



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*ENCOM Broadband radios require professional installation. Specifications subject to change without notice. Visit www.encomwireless.com for updates. © 2020 Encom Wireless Inc. All Rights Reserved.

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