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:

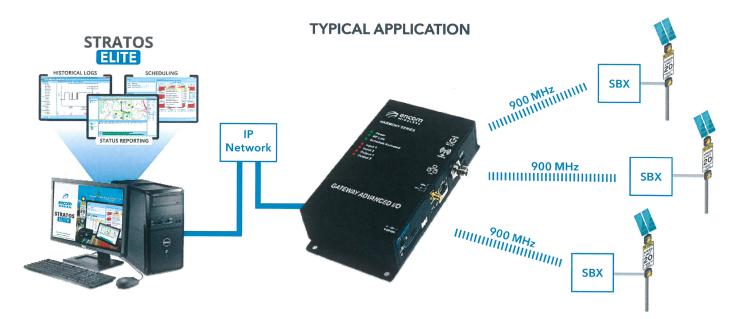
- ✓ act as a master gateway between a user's network and a larger network of 2 or more remote devices
- ✓ provide both gateway and I/O capabilities to a single site, consolidating cost and equipment
- ✓ intelligently monitor both analog and digital inputs and trigger different kinds of outputs

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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