

HARMONY Gateway E-Lite 450

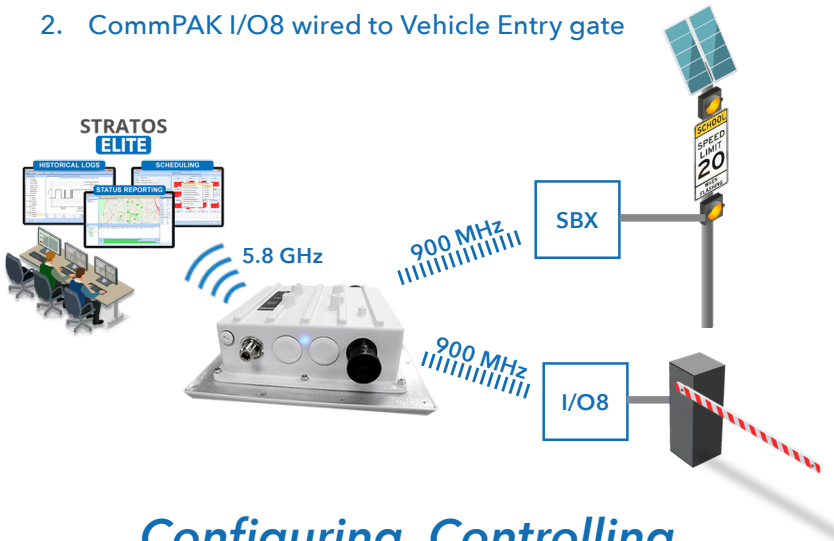
ETHERNET RADIO
with
GATEWAY FUNCTIONALITY



Example Application

Gateway E-Lite 450 connected to wireless broadband 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 E-LITE 450** is a high-performance broadband radio with built-in 900 MHz gateway functionality. Designed to optimize an existing broadband network, it can be placed within an existing 5.8 GHz deployment and aids in equipment consolidation by reliably communicating with up to 254 remote Harmony or COMMPAK I/O devices.

The Gateway E-Lite 450 is perfectly suited for:

- ✓ utilizing existing ITS infrastructure located close to an existing or proposed beacon deployment
- ✓ providing a Wifi access point that enables on site technicians to collect pertinent system data
- ✓ adding gateway capabilities to a 5.8 GHz node, enabling connectivity between remote deployments and the rest of the existing network

KEY FEATURES

- Compatible with all 802.11a/n/ac wireless networks
- Integrated 900 MHz Master radio for wireless connectivity to remote devices
- Internal device memory stores extensive calendar for scheduled events
- Precise timekeeping via NTP server synchronization
- SNMP enabled for interoperability with other central software systems
- Easily visible Signal Strength and Power On indicator
- Easily change schedules and set temporary overrides remotely

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WIRELESS

STRATOS ELITE



TYPICAL APPLICATION

5.8GHz wireless



900 MHz

900 MHz

900 MHz

WBCU

SBX I/O

I/O8



PHYSICAL SPECIFICATIONS

	NON-INTEGRATED UNIT	INTEGRATED ANTENNA UNIT
Dimensions:	8.6" x 8.6" x 3.17"	10.15" x 10.15" x 4.5"
Weight:	3 lb.	5 lb.
Environmental:	IP67 Weather Protection Rating	IP67 Weather Protection Rating
Antenna Type:	2x N-Type connectors for external antenna + 1 NF (900 MHz)	20 dBi Dual Polarity Panel Antenna + 1 NF (900 MHz)
Operating Temperature:	-40°F to +176°F @ 95% humidity RHNC (-40°C to +80°C)	-40°F to +176°F @ 95% humidity RHNC (-40°C to +80°C)
Number of Radio Units:	1	Up to 2

BROADBAND RADIO SPECIFICATIONS

Frequency Range	4.920-6.100 GHz (*subject to country regulation)
U.S. Restrictions	5.250 & 5.720 GHz excluded
Peak Transmit Power	30 dBm (1W)
Receive Sensitivity	-96 dBm to -72 dBm
Channel Widths	5 MHz, 10 MHz, 20 MHz, 40 MHz, 80 MHz
Modulations	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Protocol	IEEE 802.11 a/n/ac, E-max (proprietary)
Data Rate	up to 866 Mbps
MIMO	2x2
Topology	Point-to-Point, Point-to-Multipoint

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

GENERAL SPECIFICATIONS

Power	50-57 VDC Ethernet port (802.3af/at PoE)
Power Consumption	Gateway E-Lite 450 INT.....19W
	Gateway E-Lite 450 EXT.....19W
	Gateway E-Lite 450 INT Dual....21W
Reset to Default	Built-in button
Alignment	Built-in LED Alignment: 4-level LED strip (-60 to -100 dBm)
GPS	Built-in GPS for location identification

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, 1 W
Receiver Sensitivity	-110 dBm @ 10-6BER
Error Checking	32-bit CRC
Encryption	32-bit
Antenna Port	RP TNC-F

ORDERING OPTIONS

- **Gateway E-Lite 450 INT:** Single Radio w/ integrated Dual Polarity Panel Antenna
- **Gateway E-Lite 450 INT Dual:** Dual Radio w/ (1x) Integrated Dual Polarity Panel Antenna + (2x) External Type-N Female connectors
- **Gateway E-Lite 450 EXT:** Single Radio with (2x) External Type-N Female Connectors

*ENCOM Broadband radios require professional installation.

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

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