GATEWAY E-LITE 450

5.8 GHz | 902-928 MHz Wireless Master

HARMONY from ENCOM Wireless
Connect Everything. Anywhere. Every time.

The Harmony Gateway E-lite 450 radio is a cost-effective, easy-to-integrate means of adding smart wireless connectivity to your system. By collecting performance data and managing remote sites without site visits, Harmony optimizes operations through improved system performance and reduced mainte-nance costs. Harmony Series wireless devices combined with STRATOS ELITE Central Software enable agencies to 'connect everything' through a private Wide Area Network or the 4G LTE Cellular system. This system is not simply a wireless connection, it is an end-to-end wireless monitoring and control solution designed for both small- and large-scale deployments.

With Harmony you can:

- Easily obtain real time status updates from your remote sites and log data for future analysis to improve operations (power status, solar performance, battery charge, beacon flash status, and sensor data).
- Create and download schedules or manually control devices from anywhere you have an Internet connection.
- Receive customizable alerts and alarms directly to your inbox , enabling you to react to issues anywhere – every time.
- Leverage existing network infrastructure to connect your sites without on-going costs or use 4G LTE Cellular to connect anywhere your cellular phone works.

Harmony can connect with a wide variety of remote devices and is perfectly suited to these common applications:

- **School Zone Flashing Beacons** – track power status (AC or Solar), create/edit schedules, override individual or groups of beacons, confirm beacon flash status, log historical data
- **Solar Powered Sites** – monitor solar charge output, battery charge, load levels.
- **Intelligent Traffic Cabinets**- monitor doors, remote power cycling, environmental conditions (temp, humid ity etc)
- **Collecting SCADA information**- water / wastewater, oil and gas, electrical utilities, agriculture
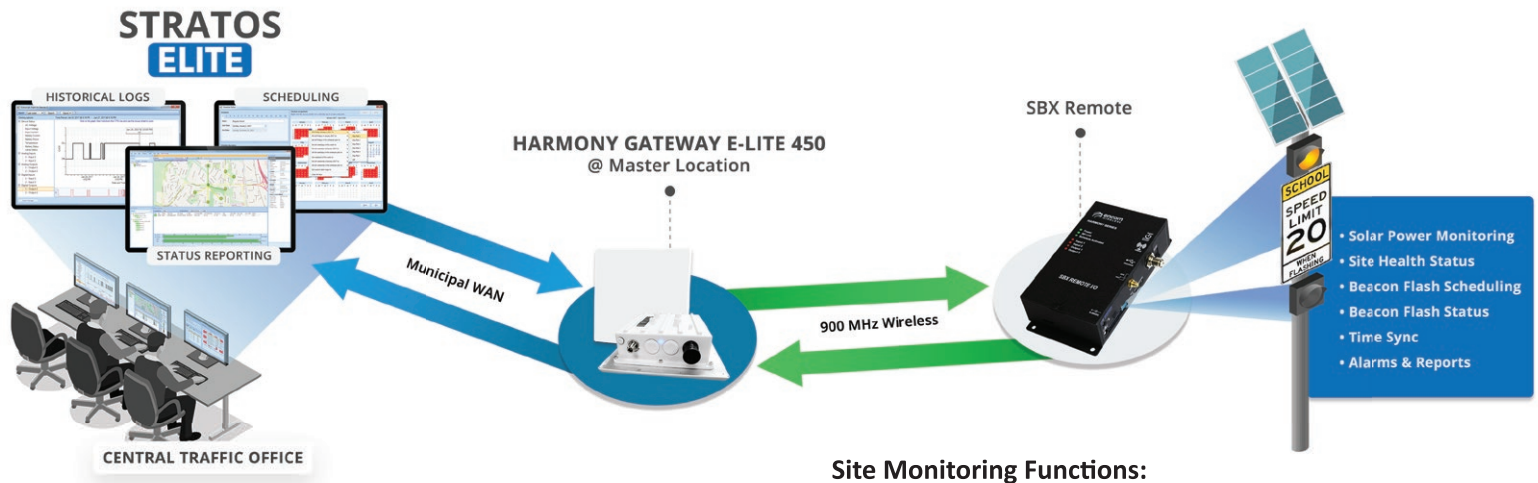
Harmony Gateway E-Lite 450
Device Overview:

Harmony Gateway E-Lite 450 is the connection point or 'ON Ramp' between your municipal Wide Area Network (WAN) or external cellular modem and the Harmony SBX Remote I/O radio to provide central monitoring and control to AC and Solar powered school zone beacons. STRATOS ELITE Central Software communicates through the Gateway to the Harmony SBX Remote I/O and creates an end to end monitoring and control solution. The Harmony Gateway Basic can be installed anywhere on your network and features a powerful and field proven 900MHz FHSS radio that creates a wireless network with up to 254 Harmony SBX Remote radios installed inside School Zone Beacons at ranges up to 20 Miles.

The Harmony Gateway E-lite 450 as all of the powerful features of the Gateway Basic along with a built in ENCOM E-lite 450 broadband 5.8 GHz radio which allows you to connect wirelessly to your existing wireless wide area network (WAN). This device enables connectivity to Harmony SBX remote radios through a powerful 900Mhz wireless Gateway transceiver with a range of up to 20 miles.

Bring Harmony to your network with ENCOM Wireless and call today for a free consultation.

GENERAL SPECIFICATIONS:

Input Power:	6-30 VDC or 100V-240VAC
Power Consumptions @ 12 VDC:	150M mA
LED Indicators:	PWR, RF Link
Operating Temperature:	-40 to 176F (-40 to 80C), up to 95% humidity
Enclosure:	Aluminum, Black Powder Coat (8.6"W x 3.17"H x 8.6"D)

RADIO SPECIFICATIONS:

Technology:	(FHSS) with repeater capability
Frequency Range:	902-928 MHz, ISM Band
Output Power:	1mW, 10mW, 100mW, 1000mW
Receiver Sensitivity:	-110dBm @ 10-6 BER
Encryption:	32-bit
Certification:	FCC, Industry Canada
Antenna Port:	RP TNC-F

CONNECTIVITY:

WiFi Radio:	5.8GHz 802.11n
LAN Port:	10/100 TCP/IP
900 MHz Radio	Yes
Configuration, Monitoring & Control:	Stratos Elite, ControlPAK

Site Monitoring Functions:

- LED beacon on/off status – confirmed with current monitoring.
- Beacon lamps fail alarms
- Low battery voltage detection and alarms
- Solar panel voltage data logging
- Solar power charge output data logging
- Power fail reporting – integrated battery backup inside Harmony Device
- General purpose I/O enabling other applications.

Control Functions:

- Centralized schedule management for school zone beacons - make schedule changes or manually turn on/off individual or groups of beacons from anywhere with STRATOS Elite.
- Accurate time synchronization at all sites - never set a time clock in the field again.
- Remote power cycle function – reset power on field devices from anywhere.
- Two hardwired inputs for push buttons / detection switch connections.
- Two 0 to 5 V analog outputs for external device control.

Harmony Gateway E-Lite 450 Connectivity Features:

- Simply connect the Harmony Gateway E-Lite 450 directly to your exiting municipal Wireless Wide Area WiFi Network to enable connectivity to Harmony SBX Remote I/O units at ranges up to 20 miles.
- STRATOS ELITE communicates with the Harmony SBX Remotes through the Gateway E-Lite 450.