

E-LITE 450

866 Mbps Wireless Broadband System 5.180-5.825GHz

OVERVIEW

Based on the 802.11ac standard the E-LITE 450 supports speeds of up to 866 Mbps. With Gigabit LAN, a proprietary eMAX protocol and MIMO technology the E-LITE 450 provides the highest throughput and lowest latency even in the most challenging RF environment.

SIMPLE POSITIONING AND AIMING

Precision aiming and optimized performance is made easy with sophisticated LED and audio based alignment tools. With the built-in spectrum analyzer scanning frequency bands for interference and Dynamic Frequency Selection (DFS) support the appropriate RF channel can be selected in moments.

SECURE AND SCALABLE

The E-LITE 450 provides secure and reliable AES encryption as well as Radius authentication methods for secure outdoor wireless communications. Large scale systems can be easily managed and implemented by segmenting areas using built-in VLAN and Traffic Prioritization functions.

YOU CAN NOW ACCESS I/O DEVICES FROM ANY NETWORK

WORKS WITH ANY BROADBAND NETWORK (ENCOM OR OTHER)

MONITOR & CONTROL UP TO 8 I/O INPUTS AND OUTPUTS PER SITE

ALARMS CAN BE GENERATED FOR ANY INPUT CHANGE

STRATOS I/O Software

ENCOM STRATOS I/O SOFTWARE

ENCOM STRATOS+ has now evolved to become STRATOS I/O. Now with additional I/O functions, you can access your ENCOM I/O devices from any broadband or fiber network with its powerful and simple interface for rapid wireless network deployment.

STRATOS I/O software makes setting up and configuring your wireless network a breeze. With profile based configurations, built-in diagnostic and alignment tools as well as network mapping and robust security features STRATOS I/O makes monitoring and maintaining your network an easy and centralized process. ENCOM's proven wireless hardware solutions coupled with unparalleled management and diagnostic software (included free of charge with all units) provide the fast and reliable networks that enterprises and municipalities all over North America have come to expect.



KEY FEATURES

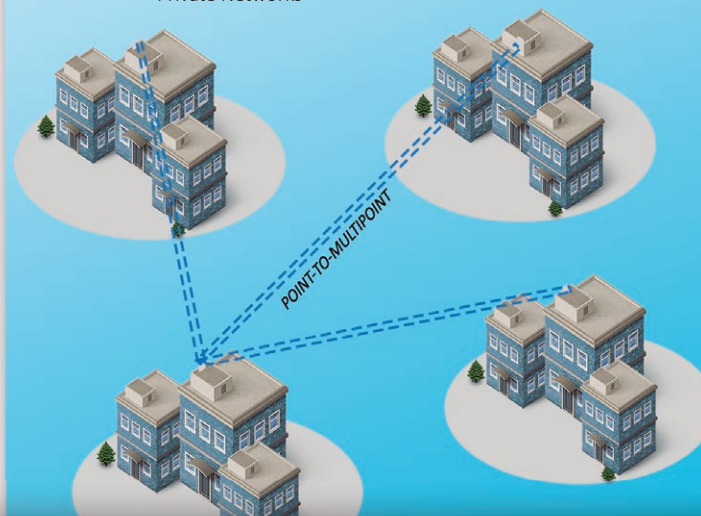
- Up to 866 Mbps
- RSSI LEDs and Reset functionality
- Power LED
- Integrated GPS for location tracking
- 802.3af/at Power over Ethernet
- Each radio can perform as Master, Remote or Repeater
- Range in excess of 20 miles (LOS)
- Every unit supplied with STRATOS+ diagnostics, monitoring and maintenance
- Extensive suite of security features

KEY BENEFITS

- Unparalleled software management tools
- Scaleable and future proof technology platforms
- Unequaled warranty and support programs
- Easily defined and measurable ROI
- Interoperable with solutions from other vendors

APPLICATIONS

- Intelligent Transportation Systems
- Water/Waste Water Management
- Utilities
- Industrial SCADA
- Private Networks



PHYSICAL SPECIFICATIONS: **E-LITE 450 GHz | 5.180-5.825 GHz BROADBAND SPECIFICATIONS**

	NON-INTEGRATED UNIT	INTEGRATED ANTENNA UNIT
Dimensions:	8.6"x8.6"x3.17"	15.25"x15.25"x4.5"
Weight:	3 lb.	5 lb.
Environmental:	IP67 Weatherproofing Rating	IP67 Weatherproofing Rating
Antenna Type:	2x N-Type connectors for external antenna	20 dBi Dual Polarity Panel Antenna
Operating Temperature:	-40°C to +80°C @ 95% humidity RHNC	-40°C to +80°C @ 95% humidity RHNC
Radio Units:	Up to 2	Up to 2

WIRELESS INTERFACE:

Ethernet:	Gigabit auto MDX, auto sensing 10/100/1000, PoE in + Date
Frequency:	5.180- 5.825 MHz
Data Rate:	Up to 866 Mbps
TX Power:	30 dBm (1W)
Receiver Sensitivity:	(MCS 0:-96 dBm) (MCS 7:-77dBm) (MCS 9:-72 dBm)
Modulations:	OFDM, BPSK-256QAM
Channel Widths:	5 / 10 / 20 / 40 / 80 MHz
Protocols:	IEEE 802.11a/n/ac. eMax (proprietary)
Topology:	2x2
Consumption:	Point-to-Point, Point-to-Multipoint

NETWORKING FEATURES:

802.11e	WMM and QOS
802.11h	DFS and TPC
802.1d	Ethernet Bridging
802.1p	Traffic Prioritization
802.1q	VLAN
802.1s	Spanning Tree
802.1w	Rapid Spanning Tree
802.3-1998	Ethernet
802.3ab	Gigabit Ethernet
802.3ac	Extended Frame Size for 802.1q & 802.1p support
802.3ad	Link Aggregation/Port Bonding/Port Tracking
802.3i	10 Mbps Ethernet
802.3u	100 Mbps Ethernet and Auto-Negotiation
802.3x	Full Duplex and Flow Control

IEEE WIRELESS NETWORKING & SECURITY FEATURES:

Power	50-57 VDC Via Ethernet Port (802.11af/at Power over Ethernet)	
Consumption	E-lite 450 INT: E-lite 450 EXT: E-lite 450 INT Dual: E-lite 450 INT Wifi:	17W 17W 22W 24W
Reset to Default	Built-in button	
Alignment	Built-in LED Alignment: 4 Level LED Strip (-60 to -100 dBm) Built-in audio alignment (3.5mm stereo jack with audio tone)	
GPS	Built-in GPS for location tracking	

ENCOM STRATOS I/O (included free with every unit)

- Can now access I/O devices from any network
- Works with any broadband network (ENCOM or other)
- Profile based configurations with SQL database
- Real-Time signal strength and connection quality monitoring with user-defined color coded link status
- Built-in bandwidth test, network traffic monitoring and spectrum scan tools
- Audio antenna alignment tool
- System Wide Ping Tool
- Radio Discovery
- Networking Mapping with Auto-Geo Location for GPS enabled units
- User defined email alerts for maintenance personnel for change in online status, decreased signal levels (dBm), connection quality and changes in data rate
- Streamlined device programming and ability to manage all devices from a central location

ORDERING OPTIONS

- **E-Lite 450 INT:** Single Radio with Integrated Dual Polarity Panel Antenna
- **E-Lite 450 INT Dual:** Dual Radio with (1x) Integrated Dual Polarity Panel Antenna & (2x) External Type-N Female Connectors
- **E-Lite 450 EXT:** Single Radio with (2x) External Type-N Female Connectors
- **E-Lite 450 INT WIFI:** Dual Radio with Integrated Dual Polarity Panel Antenna & (2x) External Type-N Female Connectors
- **E-Lite LPT Option:** Luminaire Power Tap accessory available

Distributed by:



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*ENCOM Broadband radios require professional installation. Specifications subject to change without notice. Visit www.encomwireless.com for updates.

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