

# E-LITE 4.9 GHz

130 Mbps Wireless Broadband System 4.94-4.99 GHz

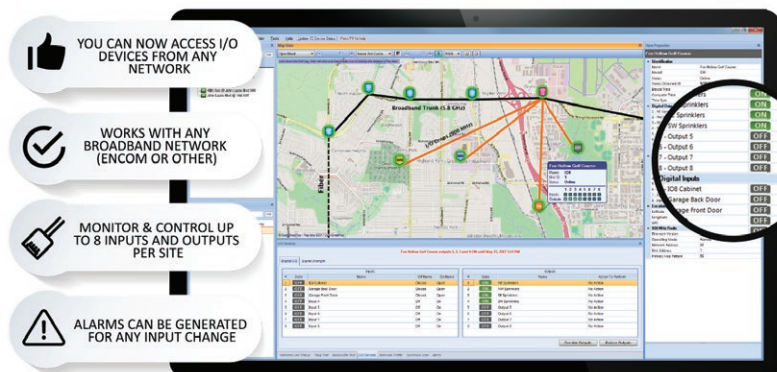
## OVERVIEW

The ENCOM E-LITE 4.9 GHz unit represents an industry first low cost solution for enterprises and municipalities. Built for high data throughput and backbone applications in mind, the ENCOM E-LITE 4.9 GHz Solution is ideal for Wireless City projects and critical high-speed communications.

## PERFORMANCE & SCALABILITY

ENCOM's E-LITE Solutions draw on all the strengths of the COMMPAK and Energy solutions to provide standard-setting data rates, enhanced security and the dependability that ENCOM is known for at an affordable price.

ENCOM's E-LITE Solutions are fully compatible with all ENCOM Energy, COMMPAKBB and other manufacturers of 802.11 a/n compliant devices, offering you the flexibility to quickly and easily deploy a fast and efficient wireless ecosystem. By adhering to IEEE 802.11 standards and offering features such as Dynamic Frequency Selection, Traffic Prioritization and OFDM technology, the E-LITE 4.9 GHz Broadband Solution is highly resilient to RF interference while providing best-in-class transmission data rates and enhanced security features such as WPA, WPA2, TKIP, AES, MAC and RADIUS authentication.



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

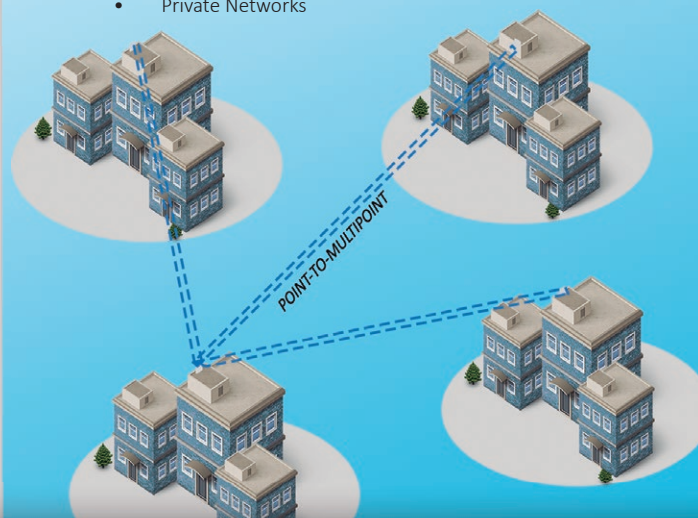
- UP to 300Mbps
- RSSI LED & Reset functionality built-in
- High Power 1000 mW transmitter allows range in excess of 20 miles (LOS)
- IEEE 802.11 a/n standards and proprietary E-max
- Every unit supplied with STRATOS+ diagnostics, monitoring and maintenance tool free of charge
- + 10/100/1000 Mbps PoE

### KEY BENEFITS

- Unparalleled software management tools
- Scalable and future proof technology platforms
- Unequalled 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 4.9 GHz   4.94-4.99 GHz BROADBAND SPECIFICATIONS	
	NON-INTEGRATED UNIT	INTEGRATED ANTENNA UNIT	ACCESS POINT CLUSTER
Dimensions:	8.6"x8.6"x3.17"	10.5"x10.5"x4"	12.5"x9.3"x5.8"
Weight:	3 lb.	5 lb.	8 lb.
Environmental:	IP67 Weatherproofing Rating	IP67 Weatherproofing Rating	IP67 Weatherproofing Rating
Antenna Type:	External Panel, Sector, OMNI	19dBi Panel Antenna	External Sector Antenna
Operating Temperature:	-40°C to +80°C @ 95% humidity	-40°C to +80°C @ 95% humidity	-40°C to +85°C @ 95% humidity
Radio Units:	Up to 2	Up to 2	Up to 4
WIRELESS INTERFACE:		NETWORKING FEATURES:	
Frequency Range:	4.940-4.990 GHz	802.11e	WMM and QOS
Peak Transmit Power:	27 dBm (1000 mW)	802.11h	DFS and TPC
Receive Sensitivity:	-94 dBm to -74 dBm	802.1d	Ethernet Bridging
Channel Widths:	5 MHz, 10 MHz, 20 MHz and 40 MHz	802.1p	Traffic Prioritization
Modulations:	OFDM, BPSK, QPSK, 16QAM, 64QAM	802.1q	VLAN
Protocol:	IEEE 802.11a/n, E-max (proprietary)	802.1s	Spanning Tree
Date Rate:	Up to 300Mbps (MCS0-15)	802.1w	Rapid Spanning Tree
MIMO:	2x2	802.3-1998	Ethernet
Topology:	Point-to-Point, Point-to-Mulitpoint	802.3ab	Gigabit Ethernet
Consumption:	14W (single), 18W (dual)	802.3ac	Extended Frame Size for 802.1q & 802.1p support
IEEE WIRELESS NETWORKING & SECURITY FEATURES:		802.3ad	Link Aggregation/Port Bonding/Port Tracking
<ul style="list-style-type: none"><li>Bursting</li><li>Compression</li><li>Dynamic Ack Timeout</li><li>TLS EAP Method</li><li>Pass-through EAP Method</li><li>Hardware Retries</li><li>Preamble Mode</li><li>Periodic Calibration</li><li>Disconnect Timeout</li><li>On-fail Retry</li><li>CSMA Disable</li><li>Station Channel Scan List</li><li>EMAX proprietary protocol</li></ul>	<ul style="list-style-type: none"><li>802.11i-WPA-PSK</li><li>802.11i-WPA2-PSK</li><li>802.11i-WPA-EAP</li><li>802.11i-WPA2-EAP</li><li>802.11i-TKIP</li><li>802.11i-AES-CCM</li><li>802.11i-802.1x</li><li>802.11i-RSN</li><li>Radius Authentication</li><li>MAC Access Control List</li><li>FCC 15.247</li><li>IC RSS-210</li><li>RoHS Compliant</li></ul>	802.3i	10 Mbps Ethernet
		802.3u	100 Mbps Ethernet and Auto-Negotiation
		802.3x	Full Duplex and Flow Control
		802.1ad	Service Tags
		IGMP	Internet Group Management Protocol v1, v2
ENCOM STRATOS I/O (included free with every unit)			
<ul style="list-style-type: none"><li>Can now access I/O devices from any network</li><li>Works with any broadband network (ENCOM or other)</li><li>Profile based configurations with SQL database</li><li>Real-Time signal strength and connection quality monitoring with user-defined color coded link status</li><li>Built-in bandwidth test, network traffic monitoring and spectrum scan tools</li><li>Audio antenna alignment tool</li><li>System Wide Ping Tool</li><li>Radio Discovery</li><li>Networking Mapping with Auto-Geo Location for GPS enabled units</li><li>User defined email alerts for maintenance personnel for change in online status, decreased signal levels (dBm), connection quality and changes in data rate</li><li>Streamlined device programming and ability to manage all devices from a central location</li></ul>			
ADDITIONAL NETWORKING FEATURES:		Distributed by:	
<ul style="list-style-type: none"><li>OSPF</li><li>FTP/TFTP</li><li>HTTP</li><li>TelNet</li><li>SSH</li><li>SNMP</li></ul>	<ul style="list-style-type: none"><li>Syslog</li><li>Routing</li><li>Firewall/NAT</li><li>NTP</li><li>VPN</li><li>DHCP Client/Server</li></ul>	<div></div>	
ORDERING OPTIONS			
<ul style="list-style-type: none"><li><b>E-Lite 4.9 INT:</b> Single Radio with Integrated Dual Polarity Panel Antenna</li><li><b>E-Lite 4.9 INT Dual:</b> Dual Radio with Integrated Dual Polarity Panel Antenna &amp;(2x) External Type-N Female Connectors</li><li><b>E-Lite 4.9 EXT:</b> Single Radio with (2x) External Type-N Female Connectors</li><li><b>E-Lite 4.9 EXT Dual:</b> Dual Radio with (4x) External Type-N Female Connectors</li><li><b>E-Lite HV option:</b> 802.3 af/at capable</li></ul>			
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\*ENCOM Broadband radios require professional installation.  
Specifications subject to change without notice. Visit [www.encomwireless.com](http://www.encomwireless.com) for updates.

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