



WIRELESS ETHERNET RADIO

E-Lite 450

866 Mbps Wireless Broadband System

Delivering High Performance, Ruggedness, and Reliability.

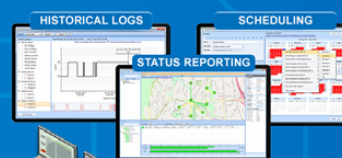
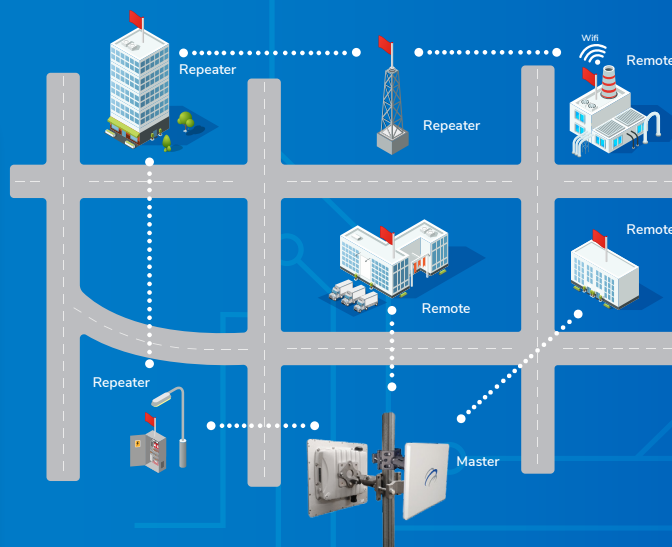
The E-LITE 450 is a high performance broadband radio that delivers the highest throughput, lowest latency, and outstanding coverage in any outdoor environment. Perfect for the most demanding applications such as video streaming or backhaul applications with features such as PoE, integrated GPS, traffic prioritization, dynamic frequency selection, and more.

- PoE (802.3af/at compliant)
- Integrated GPS
- Traffic Prioritization
- Operating Temp. -40°F to 176°F
- Dynamic Frequency Selection
- Received Signal Strength Indicator
- IP67 Weather Protection Rating
- Line of Sight Range of 20+ miles



Key Features

- IP67 pressure relief vent ensures
 - ✓ Pressure is equalized within enclosure to effectively manage condensation
 - ✓ Protection against liquid ingress and contaminants such as dirt, dust, and other potentially harmful particulates
- Reliable connectivity no matter the weather
- Fastest data rates to handle live video and critical data backhaul applications flawlessly
- Real time auto-optimization with Dynamic Frequency Selection and built-in Spectrum Analyzer
- Embedded GPS for precise geo-location
- At-a-glance RSSI + Power indicator



STRATOS
ELITE

Visualize, Control, and Monitor Your Encom Wireless Network with **STRATOS**.

Works with Stratos I/O or Stratos Elite.

PHYSICAL SPECIFICATIONS		
	NON-INTEGRATED	INTEGRATED
Dimensions:	10.6" x 9.4" x 2.75"	12.6" x 12.6" x 3.46"
Weight:	3 lb	5lb
Environmental:	IP67-rated enclosure	IP67-rated enclosure
Antenna Type:	2x N-Type connectors for external antenna	20dBi Dual Polarity Panel Antenna
Operating Temperature:	-40°F to 176°F @ 95% humidity RHNC	-40°F to 176°F @ 95% humidity RHNC
# of Radio Units:	1	Up to 2

WIRELESS INTERFACE	
Frequency Range:	4.920-6.100 GHz (subject to country reg.)
US Restrictions:	5.250 and 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 802.11a/n/ac, E-max (proprietary)
Data Rate:	Up to 866 Mbps in 802.11ac mode Up to 300 Mbps in 802.11n mode Up to 54 Mbps in 802.11a mode
MIMO:	2x2
Topology:	Point-to-Point, Point-to-Multipoint

GENERAL SPECIFICATIONS	
Power:	50-57 VDC Ethernet Port (802.3af Power Over Ethernet)
PoE Port #2 (optional):	PoE Out (802.3 af, MAX 13w) and Data
Consumption:	17W (450 INT, EXT) 19W (INT DUAL)
Reset to Default:	Built-in button
Alignment:	Built-in LED Alignment: 4 Level LED Strip
GPS:	Built-in GPS for location tracking
Pressure Equalization Valve:	IP67 pressure relief vent to maximize service life

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 and (2x) External Type-N Female Connectors - E-Lite 450 EXT: Single Radio with (2x) External Type-N Female Connectors	
*Optional 2nd PoE port available	

IEEE WIRELESS NETWORKING & SECURITY FEATURES	
- Compression - Dynamic Ack Timeout - TLS EAP Method - Pass-through EAP Method - Hardware Retries - Preamble Mode - Periodic Calibration - Disconnect Timeout - On-fail Retry - CSMA Disable - Station Channel Scan List - EMAX proprietary protocol	802.11a/n/ac 802.11i-WPA/WPA2-PSK 802.11i-WPA/WPA2-EAP 802.11i-TKIP 802.11i-AES-CCM 802.11i-802.1x 802.11i-RSN - Radius Authentication - MAC Access Control List - FCC 15.247 - IC RSS-210 - RoHS Compliant

IEEE STANDARDS			
802.11a/n/ac	Wifi protocols	802.3ab	Gigabit Ethernet
802.11e	WMM and QOS	802.3ac	Extended frame size for 802.1q and 802.1p support
802.11h	DFS and TPC	802.3ac	Link Aggregation, port bonding, port tracking
802.1d	Ethernet Bridging	802.3i	10 Mbps Ethernet
802.1p	Traffic Prioritization	802.3u	100 Mbps Ethernet and Auto-Negotiation
802.1q	VLAN	802.3x	Full duplex and flow control
802.1s	Spanning Tree	802.1ad	Service tags
802.1w	Rapid Spanning Tree	IGMP	Internet Group Management Protocol v1, v2

ADDITIONAL NETWORKING FEATURES		
- OSPF - FTP/TFTP - HTTP - Telnet	- Syslog - Routing - Firewall/NAT - NTP	- SSH - SNMP - VPN - DHCP Client/Server

ENCOM STRATIOS I/O (free control/monitoring software incl.)	
- 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 and system-wide Ping tool - Radio discovery with remote radio IP change capability - Network mapping with automatic geolocation for GPS enabled units - User-defined email alerts for changes to online status, decreased signal levels (dBm), connection quality, and fluctuations in data rate - Streamlined device programming and ability to manage all devices from a central location	



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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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