E-LITE 4.9 GHz

130 Mbps Wireless Broadband System

HIGH-PERFORMANCE. RUGGEDNESS. RELIABILITY.

Our **E-LITE** broadband radios are feature-rich wireless data transmission solutions that deliver outstanding coverage in any outdoor environment. Whether your situation requires operating on licensed or unlicensed radio frequencies, our field-proven equipment performs reliably in a broad range of operational applications and weather conditions. With unmatched customer service and warranty, our radios offer features such as:
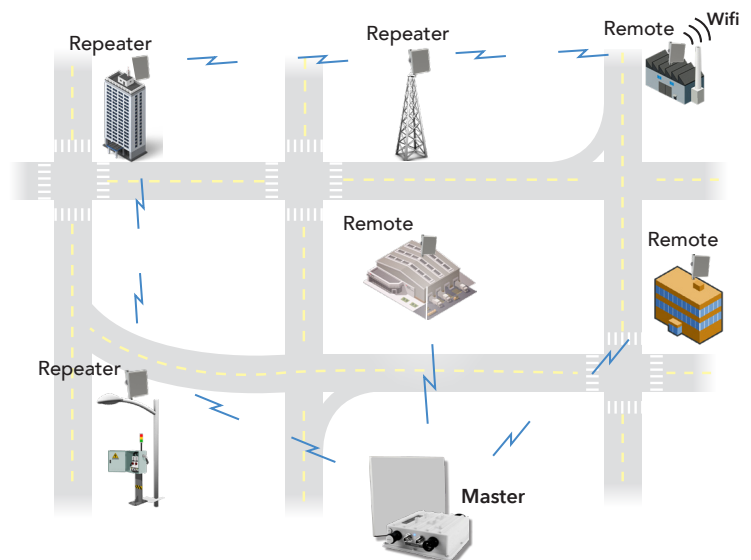
- Power over Ethernet
- Traffic Prioritization
- Optional Wifi Capability
- Operating Temp. -40°F to +176°F
- Customizable Channel Widths
- Dynamic Frequency Selection
- Received Signal Strength Indicator
- Built-in Audio Alignment Tool
- IP67 Weather Protection Rating
- Works with any Broadband Network

KEY BENEFITS

✓ Ideal for a variety of wireless projects and critical high-speed communications

✓ Highly resilient to RF interference

✓ Real-time auto-optimization through smart features like Dynamic Frequency Selection and built-in Spectrum Analyzer

✓ Works seamlessly with STRATOS

✓ Reliable connectivity no matter the weather!

✓ Works with earlier generation equipment to save you time and money!

✓ No digging needed! Easy installation gets you up and running faster

✓ Configurable channel widths

✓ Easily visible signal strength and power indicator

Visualize, Control and Monitor your Encom Wireless Network with

STRATOS

(works with Stratos I/O or Stratos Elite)

Repeater · Repeater · Remote · Wifi · Remote · Remote · Repeater · Master

Control Center
(or closest IP Access Point)

HISTORICAL LOGS · SCHEDULING · STATUS REPORTING

CENTRAL TRAFFIC OFFICE

www.encomwireless.com

encom WIRELESS

E-LITE 4.9 GHz

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	19 dBi Dual Polarity Panel Antenna
Operating Temperature:	-40°F to +176°F @ 95% humidity RHNC	-40°F to +176°F @ 95% humidity RHNC
Number of Radio Units:	Up to 2	Up to 2

WIRELESS INTERFACE

Frequency Range:	4.940 to 4.990 GHz (*Subject to Country Regulation)
Peak Transmit Power:	27 dBm (500mW)
Receive Sensitivity:	-94 dBm to -74 dBm
Channel Widths:	20 MHz
Modulations:	OFDM, BPSK, QPSK, 16QAM, 64QAM
Protocol:	IEEE 802.11a/n, E-max (proprietary)
Data Rate:	Up to 130 Mbps
MIMO:	2x2
Topology:	Point-to-Point, Point-to-Multipoint

GENERAL SPECIFICATIONS

Power	18-24 VDC Passive PoE
Consumption	14W
	14W
	16W
Reset to Default	Built-in button
Alignment	Built-in LED Alignment: 4 Level LED Strip (-60 to -100 dBm)

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
- 802.11i–WPA–PSK
- 802.11i–WPA2–PSK
- 802.11i–WPA–EAP
- 802.11i–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

ORDERING OPTIONS

- **E-Lite 4.9 INT:** Single Radio with Integrated Dual-Polarity Panel Antenna
- **E-Lite 4.9 INT Dual:** Dual Radio with (1x) Integrated Dual-Polarity Panel Antenna & (2x) External Type–N Female Connectors
- **E-Lite 4.9 EXT:** Single Radio with (2x) External Type–N Female Connectors

IEEE STANDARDS

802.11a/n	WiFi protocols
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
802.3ab	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
802.1ad	Service Tags
IGMP	Internet Group Management Protocol v1, v2

ADDITIONAL NETWORKING FEATURES

- OSPF
- FTP/TFTP
- HTTP
- Telnet
- SSH
- SNMP

- Syslog
- Routing
- Firewall/NAT
- NTP
- VPN
- DHCP Client/Server

ENCOM STRATOS I/O   (free control/monitoring software included)

- 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 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

encom WIRELESS