E-LITE 2.4 GHz

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:
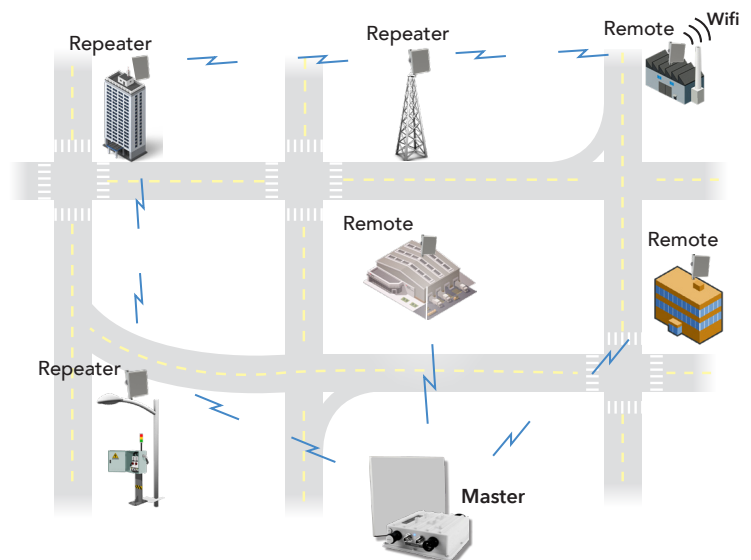
- *Optional* Power over Ethernet
- Traffic Prioritization
- Optional Wifi Capability
- Operating Temp. -40°F to +158°F
- Customizable Channel Widths
- Dynamic Frequency Selection
- Received Signal Strength Indicator
- Built-in Audio Alignment Tool
- IP67 Weather Protection Rating
- Works with any Broadband 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

Control Center
(or closest IP Access Point)

HISTORICAL LOGS | SCHEDULING

STATUS REPORTING

CENTRAL TRAFFIC OFFICE

www.encomwireless.com

encom WIRELESS

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PHYSICAL SPECIFICATIONS

	NON-INTEGRATED UNIT
Dimensions:	8.6" x 8.6" x 3.17"
Weight:	3 lb.
Environmental:	IP67 Weather Protection Rating
Antenna Type:	External Panel, Sector, Omni
Operating Temperature:	-40°F to +158°F @ 95% humidity RHNC
Number of Radio Units:	1

WIRELESS INTERFACE

Frequency Range:	2.412 to 2.462 GHz
Peak Transmit Power:	30 dBm (1000 mW)
Receive Sensitivity:	-96 dBm to -73 dBm
Channel Widths:	5 MHz, 10 MHz, 20 MHz, 40 MHz
Modulations:	OFDM, BPSK, QPSK, 16QAM, 64QAM
Protocol:	IEEE 802.11a/n, E-max (proprietary)
Data Rate:	Up to 300 Mbps (MCSO-15)
MIMO:	2x2
Topology:	Point-to-Point, Point-to-Multipoint

GENERAL SPECIFICATIONS

Consumption	14W (single)
Reset to Default	Built-in button
Alignment	Built-in LED Alignment: 4 Level LED Strip (-60 to -100 dBm)

IEEE WIRELESS NETWORKING & SECURITY FEATURES

- Bursting
- 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

- 802.11i–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 2.4 EXT:** Single Radio with (2x) External Type–N Female Connectors
- **E-Lite HV option:** 802.3 af/at capable

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
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