



WIRELESS ETHERNET RADIO

E-Lite 5.8GHz

300Mbps Wireless Broadband System

Delivering High Performance, Ruggedness, and Reliability.

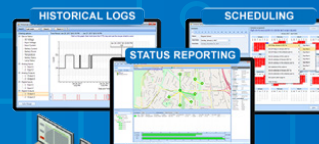
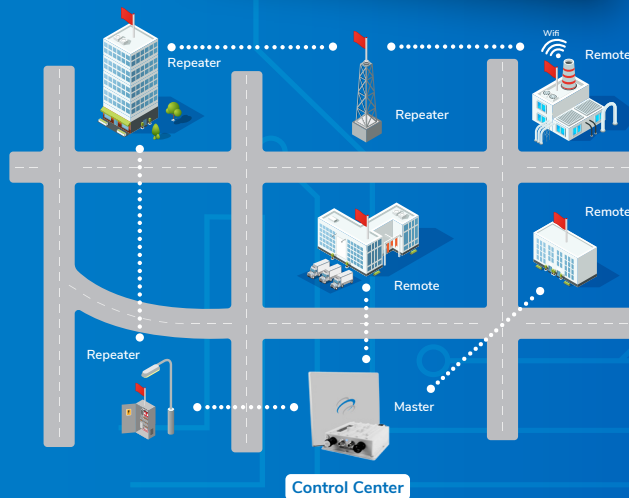
Our E-LITE broadband radios are feature-rich wireless data transmission solutions that deliver outstanding coverage in any outdoor environment. Whether your situation requires operating on licensed or unlicensed radio frequencies, our field-proven equipment performs reliably in a broad range of operational applications and weather conditions.

- Power over Ethernet
- Traffic Prioritization
- Optional Wifi Capability
- Operating Temp -40°F to 176°F
- Customizable Channel Widths
- Dynamic Frequency Selection
- Recalled Signal Strength Indicator
- Built-in Audio Alignment Tool
- IP67 Weather Protection Rating
- Works with any Broadband Network



Key Features

- 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.

PHYSICAL SPECIFICATIONS		
	NON-INTEGRATED	INTEGRATED
Dimensions:	8.6" x 8.6" x 3.17"	10.15" x 10.15" x 4.5"
Weight:	3 lb	5lb
Environmental:	IP67 Weather Protection Rating	IP67 Weather Protection Rating
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:	4.900-5.920 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 -78 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
MIMO:	2x2
Topology:	Point-to-Point, Point-to-Multipoint

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

ORDERING OPTIONS	
- E-Lite 5.8/2.4 INT Dual: Dual radio with (1x) Integrated Dual-Polarity Panel Antenna and (2x) External Type-N Female Connectors - E-Lite 5.8 INT: Single radio with Integrated Dual-Polarity Panel Antenna - E-Lite 5.8 INT Dual: Dual radio with (1x) Integrated Dual Polarity Panel Antenna and (2x) External Type-N Female Connectors - E-Lite 5.8 EXT: Single radio with (2x) External Type-N Female Connectors	



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

IEEE STANDARDS			
802.11a/n	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	802.3ad	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	• SSH • SNMP • Syslog • Routing	• Firewall/Nat • NTP • 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 • 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 Broadband radios require professional installation. Specifications subject to change without notice. Visit www.encomwireless.com for updates.
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