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

www.encomwireless.com
**E-LITE 2.4 GHz**

### PHYSICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>NON-INTEGRATED UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions:</strong></td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
</tr>
<tr>
<td><strong>Environmental:</strong></td>
</tr>
<tr>
<td><strong>Antenna Type:</strong></td>
</tr>
<tr>
<td><strong>Operating Temperature:</strong></td>
</tr>
<tr>
<td><strong>Number of Radio Units:</strong></td>
</tr>
</tbody>
</table>

### 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-WPA2-EAP
- 802.11i-TKIP
- 802.11i-AES-CCM
- 802.11i-802.1x
- 802.11i-RSN
- 802.11i-RSN
- Radius Authentication
- MAC Access Control List
- FCC 15.247
- IC RSS-210
- RoHS Compliant
- 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

### 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

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- Power over Ethernet
- Traffic Prioritization
- Optional Wifi Capability
- Operating Temp. -40ºF to +176ºF
- 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
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www.encomwireless.com
## PHYSICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>NON-INTEGRATED UNIT</th>
<th>INTEGRATED ANTENNA UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions: 8.6” x 8.6” x 3.17”</td>
<td>10.15” x 10.15” x 4.5”</td>
</tr>
<tr>
<td>Weight: 3 lb.</td>
<td>5 lb.</td>
</tr>
<tr>
<td>Environmental: IP67 Weather Protection Rating</td>
<td>IP67 Weather Protection Rating</td>
</tr>
<tr>
<td>Antenna Type: 2x N-Type connectors for external antenna</td>
<td>19 dBi Dual Polarity Panel Antenna</td>
</tr>
<tr>
<td>Operating Temperature: -40°F to +176°F @ 95% humidity RHNC</td>
<td>-40°F to +176°F @ 95% humidity RHNC</td>
</tr>
<tr>
<td>Number of Radio Units: Up to 2</td>
<td>Up to 2</td>
</tr>
</tbody>
</table>

## WIRELESS INTERFACE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>NON-INTEGRATED UNIT</th>
<th>INTEGRATED ANTENNA UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>4.940 to 4.990 GHz (*Subject to Country Regulation)</td>
<td></td>
</tr>
<tr>
<td>Peak Transmit Power</td>
<td>27 dBm (500mW)</td>
<td></td>
</tr>
<tr>
<td>Receive Sensitivity</td>
<td>-94 dBm to -74 dBm</td>
<td></td>
</tr>
<tr>
<td>Channel Widths</td>
<td>20 MHz</td>
<td></td>
</tr>
<tr>
<td>Modulations</td>
<td>OFDM, BPSK, QPSK, 16QAM, 64QAM</td>
<td></td>
</tr>
<tr>
<td>Protocol</td>
<td>IEEE 802.11a/n, E-max (proprietary)</td>
<td></td>
</tr>
<tr>
<td>Data Rate</td>
<td>Up to 130 Mbps</td>
<td></td>
</tr>
<tr>
<td>MiMo</td>
<td>2x2</td>
<td></td>
</tr>
<tr>
<td>Topology</td>
<td>Point-to-Point, Point-to-Multipoint</td>
<td></td>
</tr>
</tbody>
</table>

## GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>18-24 VDC Passive PoE</td>
</tr>
<tr>
<td>Consumption</td>
<td>14W</td>
</tr>
<tr>
<td>Reset to Default</td>
<td>Built-in button</td>
</tr>
<tr>
<td>Alignment</td>
<td>Built-in LED Alignment: 4 Level LED Strip (-60 to -100 dBm)</td>
</tr>
</tbody>
</table>

## 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
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- 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

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HIGH-PERFORMANCE. RUGGEDNESS. RELIABILITY.

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<td>Up to 2</td>
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<tr>
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<td><strong>U.S. Restrictions:</strong></td>
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<td><strong>Peak Transmit Power:</strong></td>
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- Pass-through EAP Method
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- Preamble Mode
- Periodic Calibration
- Disconnect Timeout
- On-fail Retry
- CSMA Disable
- Station Channel Scan List
- EMAC proprietary protocol

### ADDITIONAL NETWORKING FEATURES

- OSPF
- FTP/TFTP
- HTTP
- Telnet
- SSH
- SNMP
- Syslog
- Routing
- Firewall/NAT
- NTP
- VPN
- IGMP
- Internet Group Management Protocol v1, v2
- ENCOM STRATOS I/O (free control/monitoring software included)
- RIP
- OSPF
- BGP
- OSPFv3
- BGPv4
- Open Shortest Path First (OSPF)
- Border Gateway Protocol (BGP)
- Open Shortest Path First version 3 (OSPFv3)
- Border Gateway Protocol version 4 (BGPv4)
- 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
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### ORDERING OPTIONS

- **E-Lite 5.8/2.4 INT Dual**: Dual Radio with (1x) Integrated Dual-Polarity Panel Antenna & (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 & (2x) External Type-N Female Connectors
- **E-Lite 5.8 EXT**: Single Radio with (2x) External Type-N Female Connectors

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