The Embedded Module Development Kit provides complete equipment and support to prototype and test your solution. goTenna engineers will work directly with technical teams to support application, radio frequency, and physical integration. Included in the Embedded Module Development Kit package are:

- goTenna Embedded Modules & Development Boards
- Engineering support hours (technical and field-deployed)
- SDK documentation & activation
- Technical Roadmap Sessions
- Marketing & Commercialization Planning

**goTenna Pro Embedded Module Development Kit Product Specs:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Dimensions (LxWxD)</td>
<td>1.34 x 1.25 x 0.1 in / 3.40 x 3.17 x .25 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>.35 oz / 10 g</td>
</tr>
<tr>
<td>VHF Frequency</td>
<td>142 to 175 MHz*</td>
</tr>
<tr>
<td>UHF Frequency</td>
<td>445 to 480 MHz</td>
</tr>
<tr>
<td>Hop Limit</td>
<td>6</td>
</tr>
</tbody>
</table>

*VHF is intended for fixed and mobile antenna mounting configurations.
ASPEN GROVE

goTenna's Aspen Grove™ mesh protocol stack uses a novel zero-control-packet approach to increase data transmission efficiency in decentralized, off-grid environments where cellular networks, WiFi, and satellite systems are impractical. Already in use by military, public safety, and disaster relief professionals, the Aspen Grove™ stack is typically integrated with low-power, low-cost goTenna hardware devices, but has the potential to be integrated into any device.

MISSION USE CASES

Examples of how the Embedded Module Development Kit can be used for off-grid missions:

OFF-GRID SENSORS

Integrate the embedded module in small form-factor sensors to transmit low-bandwidth information.

- Unattended ground sensor
- Environmental sensors
- Edge-compute detection systems

AERIAL RELAY NODE

For sUAS, reduce weight and size for optimized system layout and flight time.

- Redundant channel for telemetry or control
- Provide increased network coverage to ground nodes
- Utilise sUAS as a backhaul node

COMMUNICATIONS INTEGRATIONS

For devices which leverage multiple communication types, such as cellular or satellite, integrating the embedded module provides line-of-sight mesh networking for off-grid, subscription free connectivity.

- Low-profile, board-level integration with embedded module
- Utilize goTenna SDK to support advanced load balancing schemes

For more information on goTenna Pro, please visit www.gotennapro.com