Lexycom Technologies Inc.
EVA Software Defined Radio

Board Level for System integration

Development Kit (Ethernet, 2xSerial, cables)

Aluminum Extruded (not water-tight, cost-effective, to be installed in water-sealed cabinets, etc.)
EVA Software Defined Radio

Extra Vehicular Activity (EVA) SDR
- The smallest SDR on the market
- Low Power Consumption
- 802.11-s based Mesh Network
- Extremely miniature, battery powered
- Multiple data formats
- Interoperable
Power Efficient Hybrid Network Protocol

Selectable QoS and RF Waveform Variation

Flexible Data Rates: 8kbps ... 6.5Mbps (capable of up to 20 Mbps)

Cell-phone size (board level weighs less than 4 ounces)

IP-based, all Data Encrypted

High-Definition and Standard-Definition real-time VH264 Video; G729 voice; C&T data
## EVA Software Defined Radio

### CORE FEATURES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Miniature EVA SDR</th>
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<tbody>
<tr>
<td>Mass</td>
<td>board level weighs &lt; 4 oz.</td>
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<tr>
<td>Frequency</td>
<td>2400-2483 MHz</td>
</tr>
<tr>
<td>Output Power</td>
<td>1 Watt (adjustable in 1 dB steps)</td>
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<tr>
<td>Noise Figure</td>
<td>1 dB</td>
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<tr>
<td>Power Consump.</td>
<td>~ 3 Watts</td>
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<tr>
<td>Data Types</td>
<td>High Definition &amp; Standard Def. Video, Voice</td>
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<tr>
<td>Modularity</td>
<td>Modular Design (RF Section, Digital Section, Data Interface Section)</td>
</tr>
<tr>
<td>Reconfigurability</td>
<td>RF Section is interchangeable (the SDR can be adopted to different Frequencies).</td>
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</table>
The Lexycom EVA SDR is an S-band state-of-the-art, scalable, re-configurable SDR.

Modular RF Section: The EVA is currently equipped with an S-band RF section however, its scalable architecture can add new functionality to accommodate multiple RF sections simultaneously. The RF section of the EVA is interchangeable by design.

Flexible Data Rate: Flexible high speed data rate from 8 kbps up to 6.5 Mbps, capable of 20 Mbps.

The design is based on using the same building blocks (modules) for all nodes in the network. This "same hardware at all nodes" approach assures the portability of the same software into any radio in the system.