

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

Ultra-miniature fully functional SDR

- ✓ **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**



EVA Software Defined Radio

CHARACTERISTICS

***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



Parameter	Miniature EVA SDR
Mass	board level weighs < 4 oz.
Frequency	2400-2483 MHz
Output Power	1 Watt (adjustable in 1 dB steps)
Noise Figure	1 dB
Power Consump.	~ 3 Watts
Data Types	High Definition & Standard Def. Video, Voice
Modularity	Modular Design (RF Section, Digital Section, Data Interface Section)
Reconfigurability	RF Section is interchangeable (the SDR can be adopted to different Frequencies).

EVA Software Defined Radio

RECONFIGURABLE

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.