



MINI EVA SOFTWARE DEFINED RADIO



PRELIMINARY SPECS

APPLICATIONS

- **Military Defense**
- **Unmanned vehicle activities**
- **Robotics**
- **Video surveillance**
- **Public safety**
- **Remote monitoring and control**
- **RF Networks Bridging**
- **Telemetry**
- **Test bed platform**
- **Border Patrol**
- **First Responder**
- **Multi-service communications**

Frequency band of operation	2.4 GHz; incl. frequency hopping for noise/interference immunity
RF channel throughput	Flexible high speed data rate (8 kbps-1.2 Mbps, capable of 6.5 Mbps)
Multiple Data Types	Voice, Data, Video (High Definition and Standard)
Operating Range (LOS conditions)	Voice only, Slow data: up to 8,000 km MidRate data: up to 30 km HighDef Video, HighRate data: up to 5km
Network Topologies	Variety of Network types; incl. Hybrid Mesh (allows for end node to end node direct communication)
Data encryption, integrity validation	AES, SHA, variety of CRCs.
Reconfigurable/ Interoperable	On-board firmware bank provides the user with a variety of firmware options
Scalable Comm. Platform	Easily upgradable; can change the waveform on-the-fly
Adaptive Power Management	Power Efficient; 3W average power @ supporting HighDef Video
Robust	Spread spectrum (frequency hopping or direct sequence)
Sensitivity	-123 dBm @ BER 10 ⁻⁶ , 8 kbps -110 dBm @ BER 10 ⁻⁶ , 130 kbps -96 dBm @ BER 10 ⁻⁶ , 6.5 Mbps
Input voltage range	4.5...32 VDC (enclosure) 3.3 VDC (board level)
Operating temperatures	-40 ... + 85 deg C.
Output power	Programmable @ 1 dB steps, up to 1 Watt; dynamically scales based on QoS
Dimensions	1.60" x 3.00" x 0.50" (board level) 2.05" x 4.72" x 0.83" (enclosure) IP65
Weight	Less than 4 ounces (board level) Less than 6 ounces (enclosure)
RF connector	MCX (board level) SMA (enclosure)

EVA SDR



Lightweight
Power Efficient

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