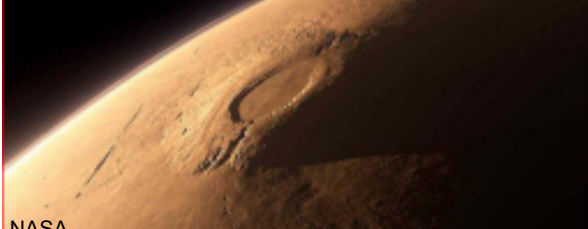




# MINI EVA SOFTWARE DEFINED RADIO

## EVA SDR EVA SDR



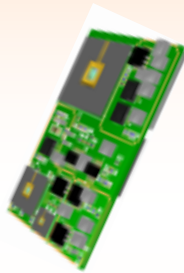
### PRELIMINARY SPECS

Frequency band of operation	2.4 GHz; incl. frequency hopping for noise/interference immunity
RF channel throughput	Flexible high speed data rate (up to 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. Allows for dynamic Encryption Key update.
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 <sup>-6</sup> , 8 kbps -110 dBm @ BER 10 <sup>-6</sup> , 130 kbps -96 dBm @ BER 10 <sup>-6</sup> , 6.5 Mbps
Input voltage range	Board level 3.3 VDC.
Operating temperatures	-40 ... + 85 deg C.
Output power	Programmable @ 1 dB steps, up to 1 Watt; dynamically scales based on QoS
Dimensions (board level)	1.58" x 3.00" x 0.5"
Weight (board level)	Less than 3 ounces
RF connector	MCX

### APPLICATIONS

- **Industrial/Utilities communications and control**
- **Military Defense**
- **Unmanned vehicle**
- **Public safety**
- **Remote monitoring and control**
- **RF Networks Bridging**
- **Telemetry**
- **Test bed platform**
- **Traffic Control**
- **Remote sensing/Data logging**
- **Space-to-space proximity links**

EVA SDR (board level)



### FEATURES

- Flexible**
- Scalable**
- Lightweight**
- Reconfigurable**

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