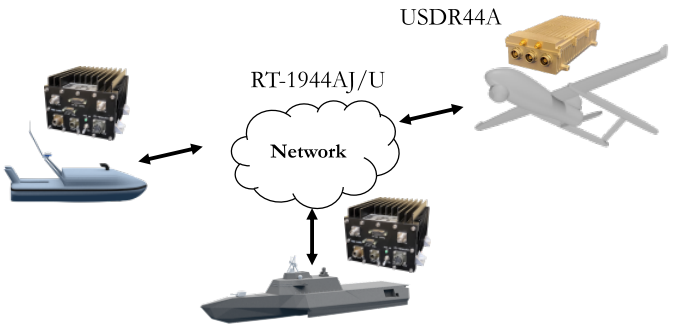
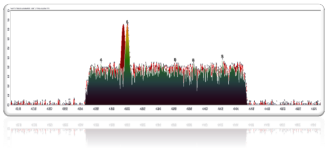
USDR-44A

The USDR-44A is a Low SWAP tactical radio that is backwards compatible with the RT-1944AJ radio network. Ideal for providing MESH networked communications to small platforms such as USVs and UASs. Backwards compatibility means platforms can integrate with existing systems easily and extend the reach of operations.
The units can provide real time RF Spectrum sensing capabilities for recording or transmission to provide RF Spectrum awareness in congested environments.

Interoperable with Existing Networks



Realtime Spectrum Monitoring



High Speed, Networked Radio



RSS PN 225046

Available in Multiple Configurations
- Tx Power : 4 Watts
- Tx Power : 70 Watts
- Customizable on Request

SPECIFICATIONS

Tunable Frequency Range:	UHF and VHF Bands
Digital Bandwidth:	up 40 MHz
RF Power Output:	4 Watts (70 Watts optional)
Temperature Range:	-20 C to +60 C
RF Ports:	2 Bi-Directional
Storage:	64 GB Flash Storage
Size:	7.75 in x 4.1 in x 1.9 in
Waveform:	OFDM, AES-128, AES-256, RSSCCF
Throughput:	50+ Mbps IP Data Encrypted

ELECTRICAL

Power:	9-36 VDC, < 14 Watts (4 Watt TX) Operates from MIL Standard Batteries such as BB-2590 and PCR-152

CONTROL & DATA

SNMPv2/3 Control
HTTPS Interface
Ethernet 10/100/1000
RS-232

OPTIONAL FEATURES
- Backwards Compatible with RT-1944AJ/U
- Up to 70 Watts RF Transmit Power
- RF Tracking / Smart Antenna Support

CAPABILITIES
Compatible with Open Source IQ Data Streaming Tools (SDRAngel, GNURadio,etc...)
Capture and Record or Stream 16-bit IQ Data
Interference Mitigation (Optional)

ADDITIONAL FEATURES
Re-configurable RF Front End
Very High Out-of-band Rejection > 70 dB
Multiple RS-422/232 Intefaces
IP-68 Connectors

*RSSCCF - RSS Corp Waveform is a Dynamic MESH Networked protocol that provides Long Range and High Throughput Bidirectional Communications. Excels at efficient throughput with many radio nodes

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USDR-44A

The USDR-44A allows for maximum Communications Range in a Swarm or Collaborative environment.
Installation Flexibility allows for the Optimization of the RF Link Budget by placing RF Antennas in ideal positions as high as possible for maximum range

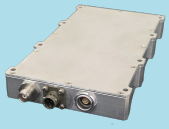
The USDR integration with RSS Corp's High Power Amplifiers exceeds the performance beam forming systems in a more compact and integrated installation.

Minimized Configuration provides RF EIRP of 52 dBm
Supports Remote Location of Equipment.
Protected from Harsh Environments and Physical Threats

Swarm Configuration



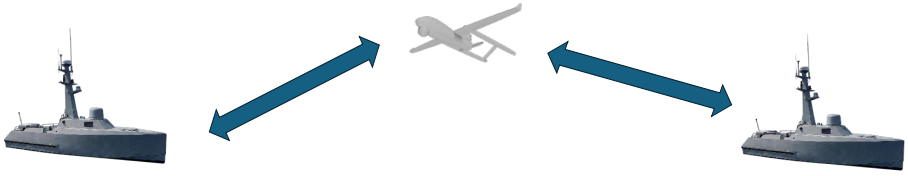
6 dBi Omni
Antenna Selection Flexible



50W HPA



USDR-44A



The USDR-44A Allows for Long Range Swarm Collaboration at ranges greater than 60 Nautical Miles

The USDR also gives the capability of Future Proofing the Data link by supporting a full Reprogrammability of its Waveform. The USDR can also support other EW Functions such as Jamming, Spectrum Monitoring, Spoofing. The Same Hardware can be utilized to be AIS, ADS-B among other waveforms.



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