



PRODUCTS

RF Simulation Systems, Inc. (RFSS) specializes in the design and production of high fidelity, wide band, high bit count Digital RF Memories (DRFMs). These DRFMs are the core of complex and sophisticated RF simulation systems, and are used in a range of applications including:



EMERGING TECHNOLOGY

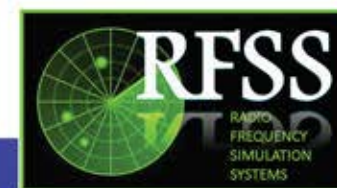
Under a Small Business Innovative Research contract with NAVAIR, we are developing a direct to digital DRFM that offers a sizable reduction of SWaP-C, and increased performance, enabling unprecedented jamming capabilities to previously impractical platforms like UAV's, using new RF DAC technology involving low-risk COTS hardware and industry standard interfaces.

RFSS' Direct-to-Digital DRFM (D2 DRFM) technology obviates the need for RF signal translation components - RF converters, agile synthesizers, local oscillators, and associated power supplies

that are typically necessary to digitize and reconstruct RF signals. It involves a new development of a D/A technology that mimics existing A/D technology where we "Digitally" convert high frequency signals (up to 20 GHz) to and from digitized analog streams.

The benefits include a sizable reduction in size, weight, power, and cost (SWAP-C), as well as reduced system latency; and a dramatic improvement in reliability, bandwidth, and capability - all due to the elimination of the problematic RF signal translation components, and the benefits of Direct to Digital translation.

The initial targeted Defense applications include any and all UAV's, fighter aircraft, and small jammer pods that are SWAP critical.



- ▶ **RADAR TARGET GENERATORS**
- ▶ **ELECTRONIC COUNTER MEASURES (ECM) TARGET GENERATORS**
- ▶ **IFF SIMULATORS**
- ▶ **RADAR ENVIRONMENT SIMULATORS**
- ▶ **AIRBORNE ELECTRONIC ATTACK JAMMING SYSTEMS**



D2 DRFM

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