




ACCELERATED PERFORMANCE



NuWaves
Engineering

Trusted RF Solutions.™

EXCELLENCE

AGILITY

INTEGRITY

RESPONSIVENESS

ABOUT NUWAVES

A veteran-owned small business founded in 2000, NuWaves Engineering is a premier supplier of Radio Frequency (RF) and Microwave solutions for military, government, industrial, and commercial customers. NuWaves provides quick-tempo design and engineering services that address the most demanding customer requirements, especially with regard to hardware size, weight and power (SWaP) reduction, cost and – oftentimes equally important – schedule. NuWaves also offers a broad catalog of high-performance commercial off-the-shelf (COTS) RF products, many of which have been derived from custom developments.



NuWaves Engineering endeavors to provide one-of-a-kind technical solutions for the U.S. Military, including high-technology Engineering Services and Products, and to achieve unsurpassed EXCELLENCE in client satisfaction.

NuWaves' Quality Management System is ISO 9001:2008 and AS9100:2009 Rev C Certified.



NUWAVES IS KNOWN THROUGHOUT THE INDUSTRY FOR **HIGH-PERFORMANCE MINIATURE DESIGNS, QUICK-TEMPO AND COST-EFFECTIVE SOLUTIONS,** MEETING THE MOST DEMANDING CUSTOMER REQUIREMENTS.



WHAT WE OFFER

RF Design Services

NuWaves Engineering offers quick-tempo RF system, subsystem and module-level design services **from HF to Ku-band frequencies**. As a turn-key solutions provider, NuWaves can take an idea from the concept stage through design and development, prototyping and even transition it to production in a seamless and cost-effective manner.

Utilizing state-of-the-art design and simulation tools and relying on decades of applied experience, our RF engineers are capable of designing *transmitters, receivers, transceivers, solid state power amplifiers, low noise amplifiers, RF front ends, upconverters, downconverters, preselectors, noise modules, synthesizers, modulators, IF chains, high-performance filters*, etc.

While best known for its RF and microwave engineering prowess, NuWaves Engineering is also adept at providing high-level communications and telemetry system-level design services. The company's complementary embedded systems design services include digital hardware, hardware description languages such as VHDL and Verilog, and embedded software/firmware such as C++ and C#. NuWaves also offers mechanical design and thermal analysis, using the very latest 3D CAD tools, allowing the team to ensure the mechanical design is optimized for fit while also taking heat transfer into consideration.

Engineering Services

NuWaves Engineering offers a wide breadth of Engineering Services related to the deployment, testing, evaluation and sustainment of advanced communications and telemetry systems.

System Sustainment – With in-depth organizational knowledge, extensive experience, and an exemplary track record of third-party system evaluation, characterization, obsolescence management, and re-engineering, NuWaves is well-positioned to provide critical system sustainment services to DoD and prime contractors.

Depot-Level Maintenance – NuWaves offers Depot-Level Maintenance for system sustainment programs, including material maintenance or repair that requires the overhaul, upgrading, or rebuilding of parts, assemblies, or sub-assemblies, and the testing and reclamation of equipment.

Environmental Testing – Our in-house environmental testing and screening capabilities include shock, vibration, temperature, humidity and EMI, helping ensure that our customers' stringent requirements are met with confidence.

RF Propagation Analysis – NuWaves offers site survey services and RF propagation analysis up to decimetric wavelengths (frequencies to 8 GHz) in support of robust system engineering design. NuWaves can determine your system specifications for link closure – inclusive of receiver performance and transmit power requirements.

CONTACT NUWAVES FOR ANY
RF DESIGN OR ENGINEERING
SERVICE YOU MAY REQUIRE



ACCELERATED PERFORMANCE

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Engineering

Trusted RF Solutions.™

RF & MICROWAVE PRODUCTS

Military • Government • Industrial

NuWaves Engineering is a premier supplier of Radio Frequency (RF) products, with a particular emphasis on subsystem, module-level products. Our market-leading designs are derived from over a decade of successful RF engineering design service work for a wide breadth of clients.

RF Upconverters	Programmable IF & RF 2 to 70 MHz IF input 2 MHz to 3 GHz RF output	
RF Downconverters	Programmable from 200 MHz to 2.5 GHz 70 MHz IF output User-selectable IF bandwidths	
Power Amplifiers	225 MHz to 2.5 GHz 5 W to 35 W Miniature size – as small as 1.3 in ³	
Bidirectional Amplifiers	1.0 GHz to 2.5 GHz 5 W to 10 W Linear models for OFDM, etc.	
Low Noise Amplifiers	2 MHz to 10 GHz 20 to 50 dB of gain Ruggedized & lab models	
RF Filters	Miniature COTS filters Custom cavity filters Quick-turn support	
Preselectors & Tuners	Fully programmable 200 MHz to 2.5 GHz 4-8% 3 dB bandwidth	

CONTACT NUWAVES

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