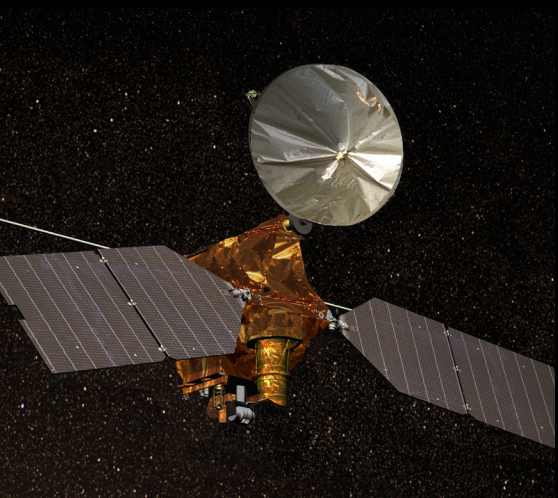




MISSION CRITICAL SOLUTIONS AND SERVICES

The industry's most trusted and reliable
electronic solutions for aerospace and defense

Honeywell

PIONEERING ADVANCED ELECTRONICS FOR THE WORLD'S MOST CRITICAL MISSIONS



WHO WE ARE

Honeywell technology pioneers the future of aerospace and defense electronics and underpins many of the world's most critical missions. We have become a leading provider of advanced RF technology to the United States aerospace and defense industry. We are proud to be a leading supplier and value the relationships we have with our customers as a trusted partner of choice. Our leadership team from across the aerospace and defense industry brings decades of experience and appreciation for supporting the Armed Forces.

Quality and Reliability are built into everything we do.

Our engineers are at the forefront of defense and aerospace innovation. We help make the world safer by creating key technologies integrated into missile defense radars, electronic warfare systems, and missile seekers that protect the datalinks that keep the warfighters connected.

DESIGN AND MANUFACTURING CAPABILITIES

Advanced Engineering Solutions

Leveraging product know-how and engineering experience, Honeywell provides specialized, mission-critical solutions for electronic warfare, communication, navigation and identification (CNI), guided munitions, missiles, radar, security and surveillance, and commercial applications. We work side-by-side with our customers to drive producibility early in the design phase.

WHAT WE DO

Honeywell accelerates the pace of customer innovation by leveraging an extensive experience base across sea, land, air and space domains and high-reliability, specialized RF, microwave, and millimeter wave (mmW) technologies.

Our capabilities include advanced engineering, manufacturing, testing, and tuning solutions uniquely conceived to overcome our customers' toughest design challenges.

As a proven, reliable partner throughout the entire lifecycle of your most ambitious, mission-critical programs, Honeywell engages at every phase of product development by providing design, manufacturing, assembly, test, and sustainment solutions.

Size, Weight and Power (SWaP) Optimization

Honeywell is the industry's leading partner for SWaP optimization. Honeywell provides high performance, compact, rugged RF filters for radar, electronic warfare, and missile applications. Our offerings include Small Custom Form Factors, Alumina Thin Film, and Chip-and-Wire Bare Die.

High Frequency

Honeywell is an industry leader in custom and off-the-shelf designs for RF, microwave, and mmW bands that meet exacting requirements for both benign and harsh environments. Our frequency expertise covers microwave to the high millimeter wave bands.

High Reliability

Honeywell has been providing high reliability design, manufacturing, and support services to the defense industry for more than 60 years. Honeywell serves as the foundation on which many high-availability and safety-critical applications are built.

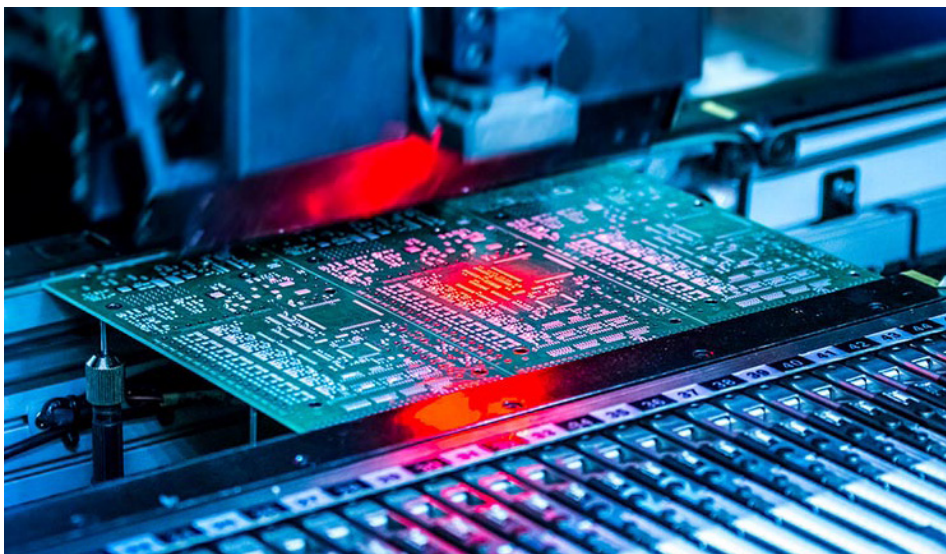
MANUFACTURING SOLUTIONS

Our world-class factories incorporate the latest lean principles, where employee engagement and visual factory designs drive quality and efficiency to reduce lead times. Our capabilities include solder, assembly, thin film substrates, and metal fab; automated processes such as pick-and-place, wire bonding, and optical inspection; environmental screening; plating and etch; paint; and laser seal and design-for-manufacturing.

Honeywell manufacturing facilities offer anechoic chambers, wedge wire bonding, conformal coating, fast prototypes, and clean room operations. Certifications include MIL-PRF-38534, IPC and NASA, Nadcap for plating and DMEA Trusted Accreditation.

Automated Assembly

Honeywell offers a full array of electronic and RF design and assembly manufacturing services. Our factories are capable of manufacturing complex microwave and mmW assemblies at reduced costs.



High Power Transmit

Honeywell provides a multitude of microwave and mmW technologies, including a variety of antennas and high power aperture solutions ideal for military and commercial avionics applications.



Advanced Microelectronics Packaging, Test, and Modeling

Honeywell supports a large range of services from rapid, small-batch prototyping for validation and characterization to full-volume production in our DMEA-accredited facility.

Build to Print/Build to Spec

Accredited by the U.S. Department of Defense as a Trusted Source and a Category 1A supplier of assembly services, Honeywell offers build-to-print and build-to-specification services such as high-volume automated circuit card assembly, COTS and commercial up-screening for high-reliability applications, packaging, and qualified assembly and test services meeting the requirements of MIL-PRF-38534 Class H and K.

ELECTRONIC MANUFACTURING SOLUTIONS (EMS)

Honeywell has a broad range of EMS offerings, including environmental and radiation testing and failure analysis, device screening, packaging solutions, and rapid prototype IC assembly with full ITAR compliance.

Microwave through Millimeter Wave Solutions

Our extensive expertise manufacturing complex microwave and mmW solutions for electronic warfare, radar and other mission critical needs adhering to established industry and military-specified standards up to and including MIL-STD-883.

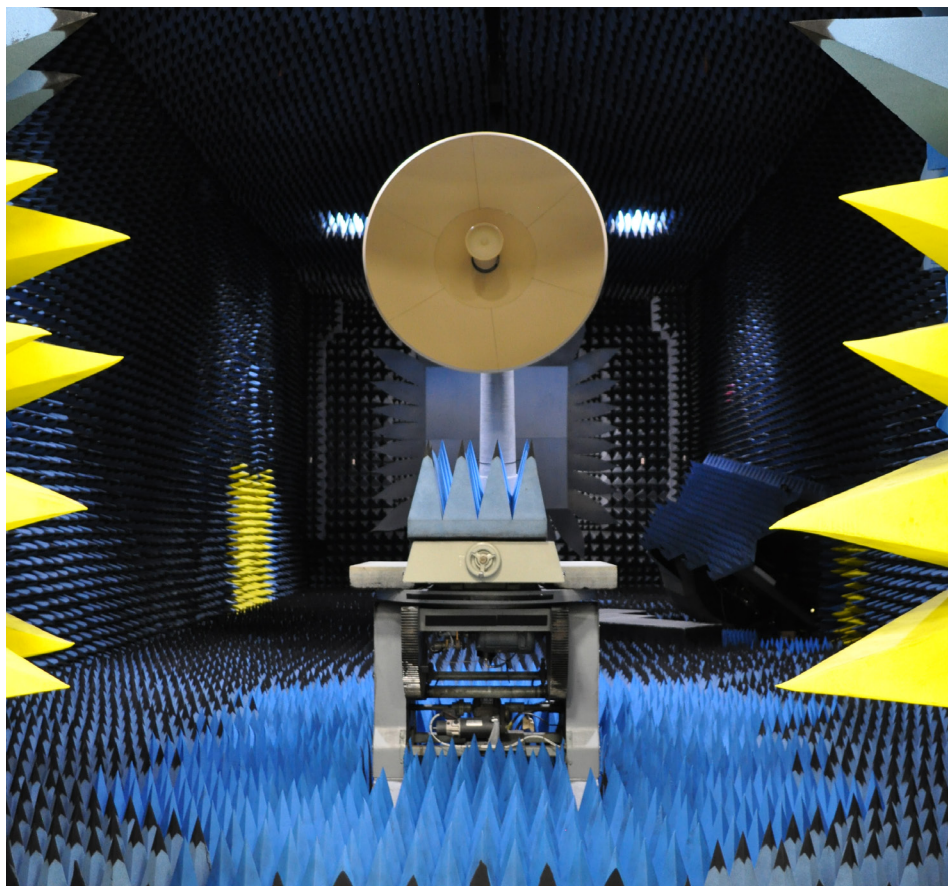
Honeywell capabilities include thin-film substrate and package manufacturing and a suite of automated services, including pick-and-place, wire bonding, optical inspection, hermetic sealing, environmental screening, painting, and electrical test over temperature.

TESTING AND TUNING

Honeywell offers an extensive infrastructure and support staff dedicated to the design and implementation of automated test equipment, environmental and dynamics testing, TID radiation testing, high power testing (featuring radiated testing), and antenna radiation pattern and gain measurements.

Automated Testing

Our capabilities include hundreds of automated RF SMART™ test stations in addition to automation software and processes that minimize test time and maximize first-pass yield.



Systems Engineering

We offer complete systems engineering services for the development of advanced technologies applicable to complex platforms as well as missile seekers, datalinks, electronic warfare systems, and next generation radar and communications systems.

Environmental and Dynamics Testing

Honeywell offers comprehensive test laboratory services, including environmental, dynamic and vibration testing and analysis, that address commercial, military, and aerospace requirements.

High Power Test Solutions

Honeywell engineers are experts in the design and implementation of cooling techniques for high-density, tightly-packaged electronic assemblies. Honeywell couples this capability with specialized test equipment, including high-gamma, load-pull resources, and unique, high-radiated-power, ferrite-lined environmental test chambers.

Automated Robotic Tuning

Honeywell is making a significant investment in advanced manufacturing through its Automated Robotic Tuning (ART) system. Machine learning was a key technology capability Honeywell utilized in the development of ART. By automating the tuning process, Honeywell is able to manufacture a much more consistent product in significantly less time.

Antenna Test Ranges

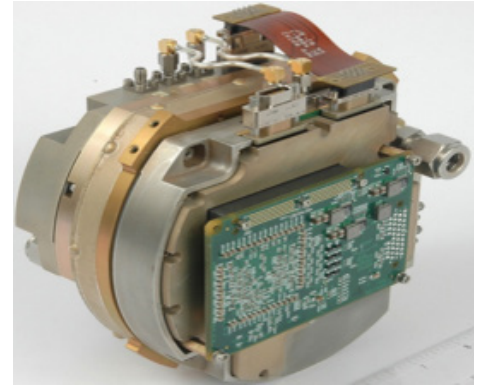
With both indoor anechoic chambers and outdoor pattern test ranges, all of which provide real-time, digitally-captured data, Honeywell quickly and accurately characterizes all aspects of antenna performance from high frequency through W-Band.

PRODUCTS

RF SUBSYSTEMS

Honeywell integrated RF assemblies and subsystems cover narrow and wideband frequencies up through W-Band and are used for radar, EW, missile, communications, and 5G test and measurement applications.

- Data Links and Telemetry
- Digital Receiver Exciter
- Frequency Converters
- Frequency Generation
- High-Power Front-End Protection
- Interferometers
- Power Amplifiers
- Preselectors and Switch Filter Banks
- Signal Conditioning and RF Distribution
- Transmit/Receive



RF MICROWAVE ASSEMBLIES

Honeywell's wide range of high-frequency RF microwave products are designed to withstand the extreme conditions of aerospace, military, and industrial environments to ensure top-notch performance and reliability.

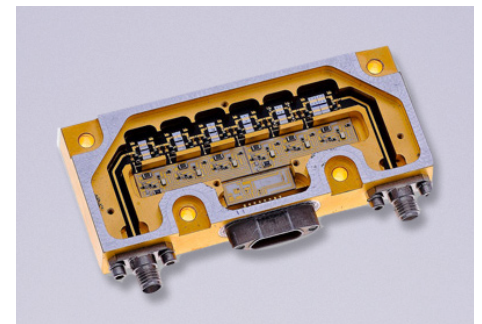
- Converters
- Integrated Microwave Assemblies
- Oscillators
- Receiver Protection
- Single-function Assemblies
- Switched Filter Banks
- Synthesizers



RF MICROWAVE AND MMWAVE COMPONENTS

Honeywell has a broad portfolio of commercial and military grade RF, microwave and mmW components used in radar, EW, missiles, CNI, test and commercial wireless systems.

- Amplifiers
- Attenuators
- Channelizers
- Combiners/Dividers
- Couplers (RF)
- Detectors
- Filters and Multiplexers
- Limiters
- Mixers
- MMICs
- Modulators
- Phase Shifters
- Proximity Sensors
- Seekers
- Switches



ANTENNAS

Honeywell is a leading designer and manufacturer of antennas and antenna arrays. Our antennas portfolio encompasses the high frequency to the millimeter wave (mmW) band with an extensive product line of advanced antennas and antenna arrays customized to withstand the most challenging environments.

- Arrays
- Blade
- Conformal
- Dipole
- Helix
- Horn/Notch
- Monopole
- Patch
- Reflector
- Sinuous
- Spiral
- UHF



DIGITAL/MIXED-SIGNAL HARDWARE

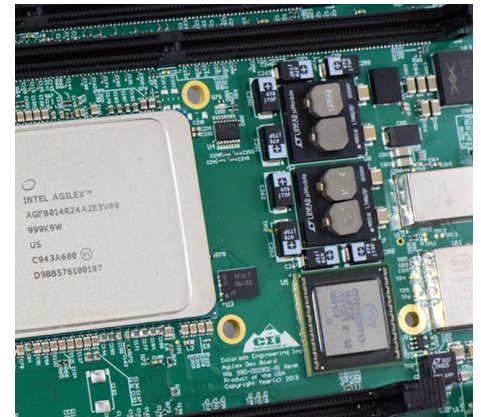
Honeywell has designed high-performance, complex digital solutions for land, sea, air and space. Our designs consist of a wide range of technology spanning from low-Cost, Size, Weight and Power (C-SWaP) embedded platforms to enterprise level solutions. No matter what your hardware requirements are, Honeywell can provide custom solutions.

Digital, Analog and Mixed Signal Solutions

- RF-System in Package (RF-SiP) and Discrete Components
- Analog-to-digital & Digital-to-analog Conversion Hardware & Software

Technology Agnostic

- X86, FPGAs, GPUs, ARM, PPC & More
- Custom & Standard Form Factors
- High-speed I/O
- Rapid Development—Prototype to Production



EW RADAR AND TEST SYSTEMS

Our Electronic Warfare Simulation Technology solution specializes in market-leading, multi-spectral threat and countermeasure simulators that are designed to strengthen the defense industry's electronic warfare testing, evaluation, and training.

- Radar target generation and electronic countermeasure simulation
- Flight line test systems
- Portable radar simulator
- Radar threat simulation
- Open range systems



MISSILE FLIGHT INSTRUMENTATION

Our Missile Flight Instrumentation solutions deliver autonomous flight safety systems and telemetry products used in missile, drone target and projectile applications.

- Flight termination receivers
- Radar transponders
- Data acquisition devices
- Integrated test instrumentation kits
- Telemetry transmitters and receivers



PRECISION POSITIONING SYSTEM

Honeywell precision positioning systems are deployed in a range of military land, sea, and airborne applications, including: electronic surveillance/radar; SATCOM; EW/DF; directed energy; EO tracking, surveillance and instrumentation; satellite laser ranging; shipboard EW/ELINT; and weapons launchers.

Our military Commercial Off the Shelf (COTS) products incorporate Line of Sight (LOS) stabilization with modular designs and sizes to accommodate a range of sensor payloads ranging from five to 2,000 pounds.

- Directed Energy Positioners
- Precision Stabilized Positioners
- Multi-axis Gimbal Platforms
- Weapons Positioners



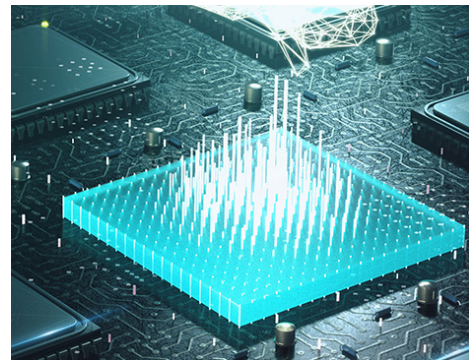
SOFTWARE AND ALGORITHMS

Software/Firmware Solutions

- Drivers to Enterprise Software Design
- Technology Agnostic — X86, FPGAs, GPUs, ARM, PPC & more

Advanced Algorithms

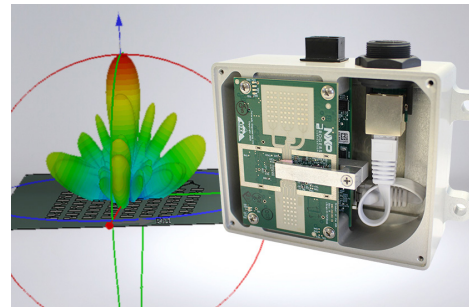
- AI
 - Intelligent Agent Architectures
 - Autonomous Mission Planning
 - AI Enabled Sensor Fusion
- Radar
 - DSP, Profile, Sense, Track & Avoid/Target
- Communications, SIGINT, ELINT, EW & C4ISR



Honeywell sub-/system engineers leverage industry leading technology and the latest thinking to provide solutions for the rapidly changing products of tomorrow.

SUB-/SYSTEMS SOLUTIONS

- System / Subsystem Modeling Using Model Based System Engineering (MBSE)
- System Requirements Analysis and Design
- Capability Analysis & Design
- Component Development
- Integration and Test, System Integration Plans
- System / Subsystem Verification and Validation Plans



TACTICAL RF

Our range of tactical systems solutions span Identification of Friend or Foe (IFF) systems, weapons guidance datalinks, and radar altimeters.

- Identification of friend or foe
- Radar altimeter
- Weapons guidance data link



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THE
FUTURE
IS
WHAT
WE
MAKE IT

