



## CUSTOM DESIGN

mWAVE Industries, LLC will design and manufacture antennas to meet your specific requirements. Our engineers have experience in frequency bands from 100 MHz to over 110 GHz, and with apertures ranging in size from a patch to over 15-ft (4.6m). In addition, we also design, and manufacture feeds and sub-reflectors for upgrades and optimization for your current large aperture reflectors.

With a multitude of operating parameters and physical constraints, antenna selection plays a critical role in a successful wireless solution. In most cases the antennas employed are as unique and diverse as the applications that they support.

Generally, these types of antennas do not exist as commercial off-the-shelf products and must be developed. The mWAVE experience in many core antenna technologies can be leveraged as a foundation for many practical new designs.

Contact us for

- Small and large aperture antennas
- Antenna RF and mechanical components
- Antenna testing services
- Low, medium, and high-volume antenna manufacturing
- Antenna design services
- Antenna analysis services
- Third party product improvement services



[www.mwavellc.com](http://www.mwavellc.com)



**A leading global provider of innovative custom and commercial microwave antenna solutions ranging from 100 MHz to 110 GHz.**

**mWAVE designs, engineers, manufactures, tests, and service antennas from our facilities in Windham, Maine USA**



A member of the Alaris Holdings group





**mWave Industries is a global leader in the engineering and design of antennas and parabolic reflector feeds.**

**We offer a comprehensive line of prime focus linear polarized feeds along with dual circular low axial ratio prime focus feeds.**

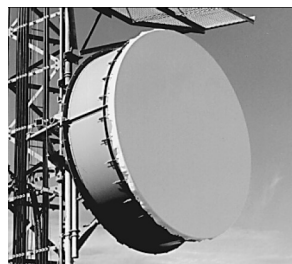
**Our antenna capabilities include a range of wideband high-power circularly polarized UHF omnidirectional antenna, wideband blades for UAV applications and other VSAT and terrestrial antenna capabilities.**



#### **Gabriel**

Gabriel's highly respected product line of Standard, High Performance and Ultra High-Performance antennas are available in a wide array of frequency bands. Thousands of Gabriel's parabolic antennas serve millions of channel miles throughout the world in cellular, public safety, broadcast, government, and military applications.

**Mark Parabolic Grid Antennas**  
Mark parabolic grids are recognized throughout the world as the leader in the commercial grid market segment. Parabolic grids serve the public safety, broadcast, utility, pipeline, carrier, military and other fixed microwave applications. Available in frequency bands from 335 to 2.700 GHz with antennas ranging in size from 3-ft (0.9) to 15-ft (4.6) diameters.



#### **Millimeter-wave Antennas**

mWAVE offers an industry leading portfolio of 1-FT (0.3), 2-FT (0.6), 3-FT (0.9) and larger diameter parabolic antennas and are available for 60-GHz, 70-GHz, 80-GHz, 94-GHz and 110-GHz applications. These antennas are customizable to mate with the radio manufacturers ODU or for advanced military or airborne applications. Available with or without our advanced compact mount that offers superior fine azimuth and elevation adjustment required at high frequencies.



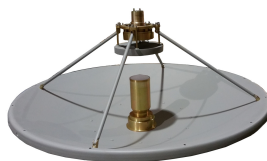
#### **GOES Patch Antennas**

This antenna design is used for transmitting data being collected by other instruments on platforms that are recording barometer data, air & sea temperature, wind speed & gusts and wind direction along with other information related to oceanographic measurements.



#### **CONSCAN Antennas**

mWAVE's "conically scanning" feed (CONSCAN) and antenna packages utilize a circular waveguide horn design. This design allows for wide frequency band coverage in one feed design that covers L & S Bands. mWAVE also has extensive experience with designing and building conscan antennas in many frequency bands for specialized and military applications.



#### **Airborne antenna systems**

These airborne antennas are designed for use in standard commercial, scientific, military and custom frequency specific bands. All mWAVE airborne antenna designs are for use in harsh environments for trouble free operation and optimum efficiency



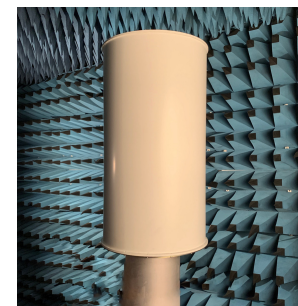
#### **Military/Ruggedized**

mWAVE's ruggedized antennas are designed for deployment and installation in harsh environments. Our engineering team utilize structural analysis software, field testing and incorporate proven materials to meet demanding environmental and structural requirements.



#### **Test Facilities**

mWAVE owns and operates a complete indoor and outdoor test facility to support RF characterization of our standard and custom antenna products. mWAVE's regularly provides independent test programs for commercial, governmental, and military clients. mWAVE provides comprehensive RF test reports with radiation patterns and multi-port swept S parameter test data.



#### **Severe Environment Series**

Severe Environment antennas (HD1A and HD2A Series) are available in pre-configured and custom configurations. The pre-configured models are designed for wind survival ratings of 255 kmh / 150 mph and 322 kmh / 200mph. Customized versions available.

