



# Antennas Antennas Antennas

**Technologically Advanced  
Custom & Commercial  
Antennas**

**UHF to MMW Bands  
100 MHz to 125 GHz**

## Innovative Antenna Solutions

*Engineered for RF Performance*

*Designed to Last*

mWAVE is a global leader in the design, engineering, and manufacture of feeds, antennas, and sub-systems. Our professional engineers design some of the most innovative RF equipment for the most demanding requirements from 100 MHz to over 125 GHz.

Our products range from single to multi-band frequencies, linear and circular polarizations and are manufactured in sizes as small as patch to over 15-ft (4.6m) diameter.

Due to 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 and customers that they support.

mWAVE's proven experience in many core antenna technologies are routinely leveraged for innovative new designs.

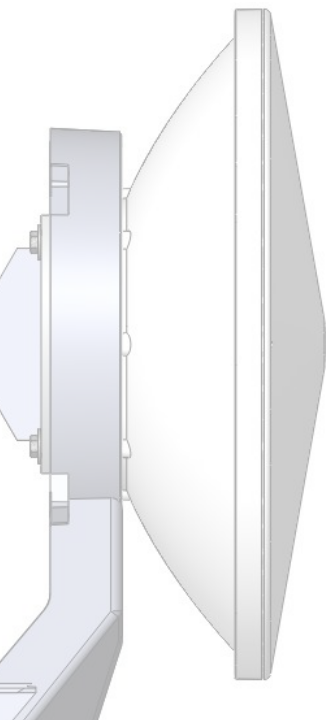


### Market Segments

- Aviation
- Broadband
- Broadcast
- Carrier
- Exploratory
- Finance
- Government
- Military
- Pipeline
- Public Safety
- Radar
- Research
- Satellite
- Scientific
- Space
- Telemetry
- Testing
- Troposcatter
- Utility

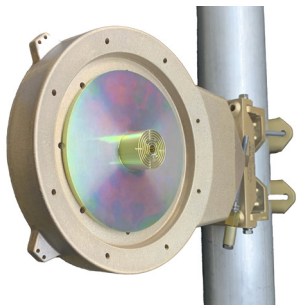
### Antenna Types

- Array
- Avionic
- Composite
- Conscan
- Custom
- Dipole
- Grid Parabolic - Mark
- Helical
- High Performance - Gabriel
- Horn
- Millimeter-Wave
- Omni
- Panel
- Patch
- Perforated
- Quadrifilar / Bifilar / Monofilar
- Sectional
- Severe Environment Antennas
- Shaped Beam
- Slotted
- Standard Parabolic - Gabriel



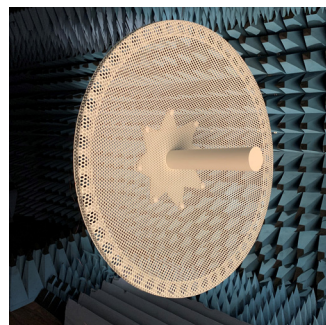
### Custom

- Frequency Bands from 100 MHz to 125 GHz
- Experienced RF and Mechanical Engineers
- State of the Art RF simulation software
- Indoor and Outdoor Test Ranges
- Aluminum & Composite Reflectors
- Multi Piece Aluminum & Composite models
- Mission Centric Subsystems
- Custom Mounts and Equipment interfaces
- Severe Environment Configurations



### Commercial

- 300 MHz to 125 GHz
- 1-ft (0.3) to 15-ft (4.6m)
- Severe Environment Models
- Grid Parabolic
- Truncated Grid and Solid Reflectors
- Standard Parabolic
- Perforated Parabolic
- High Performance
- MMW High Frequency
- Radomes
- Positioners
- Mounts
- Legacy Parts and Support



**Letter Bands**

- UHF
- VHF
- L Band
- L/S Bands
- L/S/C Bands
- S Band
- C Band
- X Band
- Ku Band
- K Band
- Ka Band
- V Band
- W Band
- MMW Band

**Frequency Bands**

- 030 - 300 MHz
- 300 – 1000 MHz
- 1.0 – 2.0 GHz
- 1.0 – 8.0 GHz
- 1.0 – 8.0 GHz
- 2.0 – 4.0 GHz
- 4.0 – 8.0 GHz
- 8.0 – 12.0 GHz
- 12.0 – 18.0 GHz
- 18.0 – 27.0 GHz
- 27.0 – 40.0 GHz
- 40.0 – 75.0 GHz
- 75 - 110 GHz
- 110 - 300 GHz



**About**

mWave Industries is a member of the Alaris Holdings Group of companies and is a leading global provider of innovative custom and commercial microwave feed and antenna solutions with products ranging from 100-MHz to 110-GHz. Our microwave feeds and antenna products are integrated into a wide array of applications by the government, military, scientific community, wireless carriers, utilities, public safety, and satellite industry. Our microwave antennas and feeds are recognized worldwide for being technologically advanced, inherently robust designs and their reliability.

**mWAVE antennas are engineered and built in the USA**

Visit our website [www.mwavellc.com](http://www.mwavellc.com) or contact us at +1.207.892.0011 for more information.

A member of the Alaris Holdings Group



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This brochure is for planning purposes and is only intended for this product lines capability and design potential. mWAVE, Gabriel and Mark product lines are committed to the highest quality standards and environmental sustainability materials.

Additional information about mWAVE and our commitment can be found at <https://www.mwavellc.com/mwave-industries-llc-about-us/sustainability>.

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