MICROWAVE ANTENNA SOLUTIONS
As the leader in microwave antenna innovation, RadioWaves provides a full product platform of microwave antennas for both licensed and unlicensed spectrum, designed to increase performance, provide mechanical durability, and reduce operational costs through ease of installation.

The demand for network bandwidth grows with each new connected device and digital innovation. The collective stress of client devices is anticipated to increase demand for network bandwidth by a factor of five by 2022. Increased demand for backhaul cellular bandwidth is driving capacity requirements on individual links, along with additional links for network deployment.

RadioWave wireless and broadband antennas are designed to optimize RF performance as well as support densification programs in microwave systems. Each purpose-built design is manufactured to minimize part count, maximize system performance, and provide rapid on-site assembly in the harshest environments.

**PERFORMANCE**
RadioWaves antennas offer ETSI class 3 radiation patterns, excellent front/back ratio, higher gain and best-in-class wind ratings of 125/155 mph.

**DURABILITY**
RadioWaves rigid diecast mounts use 6-point connections ensuring precise, durable antenna alignment and eliminating costly site revisits.

**DEPLOYMENT**
RadioWaves antennas are fully pre-assembled from the factory, designed to minimize part count and ensure “set-and-forget” installation.
The formula for successful and profitable network operation depends on the quality of the antenna, reliability of the signal, and time spent in both installation and maintenance. For more than 35 years, RadioWaves has offered to both OEMs and private operators the “right” technology for each application through attention to balance of gain, beamwidth, size, and design.

**Why Choose RadioWaves?**
- Fastest “time to tower” one-piece design reduces deployment costs
- Rugged construction and patented 6-point mounting connection for “set-and-forget” installation
- Survival wind speeds of 125 mph to 155 mph
- Custom as well as standard engineered designs for a broad range of frequencies and sizes
- Ability to change all parabolic antennas from 1.3 GHz to 38 GHz by simply replacing the feed horn
- Antennas are powder-coated and can be custom painted
- Dedicated technical support and customer service
- Industry-leading seven-year warranty
- Global distribution network

**Contact RadioWaves Today:**
Visit our website at radiowaves.com for product specifications and technical support or contact our customer service team at +1 (978) 459-8800.

**TOTAL COST OF OWNERSHIP**
With an expansive portfolio of configurations, RadioWaves wireless broadband antennas optimize performance and support densification programs, while also providing high reliability and measured ROI.
RadioWaves designs and manufactures a variety of parabolic antennas for terrestrial microwave point-to-point, point-to-multipoint and access applications—Standard Performance (SP), High Performance (HP) and Super High Performance (SHP). In addition, RadioWaves provides the industry with small cell applications including Sector (SEC), Flat Panel (FP) and Omni antennas.

**Super High Performance**
The SHP Series includes ultra-high-performance parabolic antennas engineered to provide ETSI class 3 radiation pattern performance.

**Features and Benefits**
- Single or dual polarization options available
- 5.725 GHz to 7.125 GHz bands supported
- Superior front-to-back ratio and excellent gain
- Robust pole mounts ensure “set-and-forget” installation
- Pre-assembly guarantees “factory-tested” quality
- Available in 6 ft. (180 cm) and 8 ft. (240 cm) configurations
- High performance radomes included

**High Performance Series**
The HP Series provides a full line of high-performance parabolic antennas engineered to provide ETSI class 2/3 radiation pattern performance as well as excellent gain.

**Features and Benefits**
- Multiple bands offered from 2.1 GHz to 86 GHz
- Ideal for licensed band applications
- Eliminates interference when installing in congested sites
- Supports direct-mount radios for licensed frequencies
- Shroud designed to eliminate interference
- Radome cover provided to ensure robust and reliable performance under challenging weather conditions
- Retrofit kit included
- Pre-assembly guarantees “factory-tested” quality
- Available in 1 ft. (30 cm), 2 ft. (60 cm), 3 ft. (90 cm), 4 ft. (120 cm), 6 ft. (180 cm) and 8 ft. (240 cm) diameter options
Standard Performance Antennas
The SP Series includes a full line of cost-effective standard performance parabolic antennas engineered to deliver reliable radio links.

Features and Benefits
- Value priced for economical deployments
- 1.1 GHz to 11.7 GHz frequency bands available
- Designed for unlicensed band applications
- Fully pre-assembled at the factory
- Robust pole mounts
- Available in 1 ft. (30 cm), 2 ft. (60 cm), 3 ft. (90 cm), 4 ft. (120 cm), 6 ft. (180 cm) and 8 ft. (240 cm) configurations
- Unlicensed frequencies: 2.4, 3.5, 5.2 and 5.85 GHz

Flat Panel, Sector, and Omni Antennas
The Flat Panel, Sector, and Omni antennas from RadioWaves are used in point-to-point or point-to-multipoint applications engineered to provide excellent gain and pattern performance in a low-profile, minimalistic form factor.

Features and Benefits
- Suited for point-to-point or point-to-multipoint in CBRS, public safety and WiMAX/ISM/UNII, WI Fix applications at 3.5 GHz, 4.7 GHz, and 5.8 GHz
- 1ft and 2ft flat panel options
- High gain sector antennas with 90-degree azimuth beamwidth, low side lobes, and high front to back ratio
- Rugged and durable in extreme conditions

Frequency Range

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Frequency [GHz]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super High Performance Series (SHP)</td>
<td>0 - 90</td>
</tr>
<tr>
<td>High Performance Series (HP)</td>
<td>0 - 90</td>
</tr>
<tr>
<td>Standard Performance Series (SP)</td>
<td>0 - 90</td>
</tr>
<tr>
<td>Flat Panel, Sector Omni</td>
<td>0 - 90</td>
</tr>
</tbody>
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