# FRACTAL ANTENNA



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A breakthrough universal wideband antenna from the fractal antenna innovators: excellent omnidirectional performance in a very compact, rugged unit.

With powerful performance over a 25:1+ range of frequency, the UAB<sup>™</sup> 226G antenna delivers excellent omnidirectional coverage in a compact form factor for signal gathering and high power transmit applications.

Both the vehicle and mast mounted versions of the UAB 226G antenna are ruggedly built from the base through the internal components to the radome. The antenna operates in extreme environments without a ground plane, providing good low elevation angle coverage.

Use the UAB 266G Universal Access Antenna<sup>™</sup> for any and all wireless needs!

- Universal Access Antenna™
- Comms/Security/Custom
- Commercial-Off-The-Shelf (COTS)
- VHF thru microwave
- Nominal unity gain
- Input power up to 250W
- Omnidirectional, linear polarization
- Ground plane independent
- Excellent low elevation coverage
- Inherently 50 Ohms

- VSWR 3:1 or better
- N type or customer preference
- 7.7 inch diameter x 10 inch low profile radome
- Rugged design, weighs 4.8 lbs
- Color: sand
- Optional watertight vehicle mounting kit, P/N MK-UAD-UAB
- Part numbers: UAB-SP-226 (100W) UAB-HP-256 (250W) UAB-RP UAB-RPX



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# OTHER PRODUCTS

#### UGS<sup>™</sup> Antenna

Unattended ground sensor (UGS) nodes must be low profile, lightweight and have the widest bandwidth, highest gain antenna possible. That's no easy task, yet Fractal Antenna Systems has the answer.

Integrating a single fractal antenna into an UGS node results in an easily deployed lightweight package that is less than a yard tall. Innovative raised phase center design minimizes ground losses while improving radiation pattern and launch angle. Excellent omnidirectional long-range performance means fewer nodes need to be deployed to effectively cover an area. The UGS fractal antenna is an excellent solution to the extreme RF challenges of unattended ground sensors.





# RFsabre™

With outstanding lower frequency gain and less than 3:1 VSWR over a very wide frequency range, the RFsabre antenna delivers great performance in a distinctly compact form factor. The vehicle-mounted version can survive impacts with solid objects at speeds up to 25 MPH. Geared for security, communications, signal gathering and high power transmit applications. New hanging or tripod mounted versions available.

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#### **Custom Antennas**

Fractal Antenna Systems offers custom antenna development for applications where small size, unusual form factor, and wideband or multiband performance is needed. Tell us what you need and we'll tell you what we can do. You will be amazed. The antenna shown here was developed for telemetry of in-car video from Indy Racing League cars.

## ABOUT FRACTAL ANTENNA SYSTEMS

Fractal Antenna Systems, Inc. (Fractal Antenna) develops and builds the most compact, highest performance wideband/multiband antennas in the world. Our antennas are typically two to four times smaller than traditional aerials, while achieving unique frequency coverage and excellent gains and power patterns.

Fractal Antenna's patented geometric approach and design methodology are based on decades of experience and lead to innovative antennas not possible using conventional techniques. FRAGO, our proprietary evolutionary optimization tool, allows rapid analysis of millions of possible antenna candidates to assure the best solution. Fractal Antenna's products have been proven in the toughest commercial, military, and government applications. In the military sector, we provide practical solutions for communications, intelligence, and electronic warfare. Fractal Antenna has been awarded contracts from DARPA, USAF, USMC, and USA-CECOM, among others. We provide OEM, custom, and off-the-shelf antennas that push the limits of gain, bandwidth, and size. Please contact us today to discuss your antenna needs.

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