



Quadrifilar Circular Polarized Helix Omni Antenna

QHA-850

700-1000 MHz

2 dBi Gain

Wide-Band C-UAS Jamming and Satcom Performance: The Model QHA-850 is a highly efficient quadrifilar helix antenna that operates across the **continuous 700–1000 MHz** broad-spectrum band, making it an excellent all-in-one choice for commercial GSM and CDMA frequencies. Delivering a typical gain of 2 dBi with a **near-hemispherical elevation pattern** and a wide **90-degree vertical beamwidth**, this omni-directional circular polarization system requires no manual field tuning or adjustment. The internal engineering integrates two pairs of vertical loop copper radiating elements cross-polarized at right angles, utilizing a high-efficiency Teflon dielectric transmission line to effortlessly manage an RF power handling capacity of **500 Watts**. This unique architecture maximizes signal penetration and eliminates multipath fading, providing highly reliable performance for **modern signal scanning, surveillance, ground-to-air tracking, and tactical UAV** jamming applications.

Tactical Vehicular Mounting and Rugged Environmental Specs:

Engineered for severe all-weather environments, the compact 240 mm QHA-850 features a low-profile cylindrical shape enclosed in a UV resistant ABS radome that limits ice buildup and maintains a wind rating of **200 Km/Hr**. The heavy-duty structural build uses a **premium 6063T6 aluminum** base paired with marine-grade stainless steel mounting hardware to prevent corrosion. For seamless deployment on **mobile defense armor or permanent fixed stations**, the antenna comes standard with a **NATO 4-hole flange vehicular mount** or traditional pole-mount hardware, with the N-Female RF termination safely tucked beneath the base for complete weatherproof protection.

Quadrifilar Helix Antenna
Horizontal Circular Omni
MIL-STD-810G
Model # QHA-850
Mfd. By:
ANTENNA EXPERTS

Electrical Specifications:

Frequency Range	700 -1000 MHz.
Gain	2 dBi. Typical
Bandwidth	700-1000 MHz
Polarization	Circular – RHCP or LHCP
Input Impedance	50 Ohms
Azimuth Radiation Pattern - Typical	Omni-directional
Termination	N-Female
Vertical Beam-width –Half Power Points.	90 Degrees Typical
VSWR – Better Than	2.2:1 Max, Typical 2:1
RF Power Handling Capacity	500 Watts

Mechanical Specifications:

Materials	6063T6 Aluminum & Copper
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	240 mm
Shipping Length	250 mm
Mounting Type	Pole/Mast/NATO or Customized
Enclosure Material	Fiber Glass
Gross Weight Approx	2 Kgs.
Radome Materials	Fiberglass

Environmental Specifications:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.