



Laird's unique patented Ultra Phantom® single-band antenna is a rugged low-profile antenna for outdoor or indoor applications. The Ultra Phantom features vertical polarization, low visibility, wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications.

The industry standard NMO mounting socket mates with all Laird magnetic, trunk lid and whole mounts.

FEATURES AND BENEFITS

- Outperforms 3-dBi whip antennas in many applications
- IP67-rated for harsh environment applications
- U.S. patent numbers 5,977,931 – 6,292,156 and 7,209,096
- RoHS-compliant

APPLICATIONS

- Public safety
- Transportation
- Utilities
- Military mobile
- Fixed radio applications

ELECTRICAL SPECIFICATIONS

Frequency Range	380-512 (see Model and Ordering Information)
VSWR – Avg	≤ 2.5:1
Gain (dBi)	2.0 – 4.1 (see Model and Ordering Information)
Nominal Impedance (Ohms)	50
Pattern Type	Omnidirectional
Polarization	Vertical

MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – mm (inches)	35.5 x 86.3 (1.4 x 3.4)
Weight – g (lbs.)	163.3 (0.36)
Mounting	NMO
Color	Black or white
Lightning Protection	

ENVIRONMENTAL SPECIFICATIONS

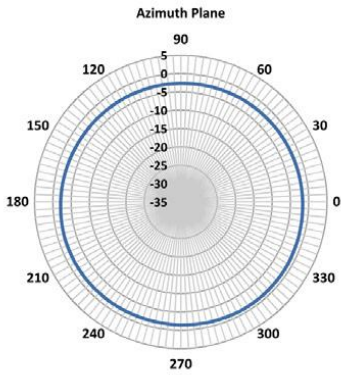
Operating Temperature – °C (°F)	-45 to +85°C (-49 to +185°F)
Storage Temperature – °C (°F)	-50 to +85°C (-58 to +185°F)
Wind Survival – km/hr (mph)	282 (175)
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

MODEL AND ORDERING INFORMATION

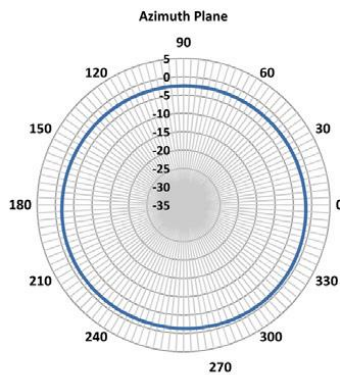
PART NUMBER	FREQUENCY (MHz)	MAX. GAIN (dBi)	COLOR
UTRA4502S3NB/UTRA4502S3NW	450-512	4.1	Black/White
UTRA4301S3NB/ UTRA4301S3NW	430-490	3.6	Black/White
UTRA4061S2NB/ UTRA4061S2NW	406-440	2.9	Black/White
UTRA3802S1NB/ UTRA3802S1NW	380-410	2.0	Black/White

RADIATION PATTERNS

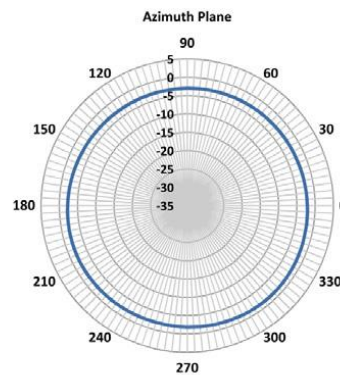
450 MHz



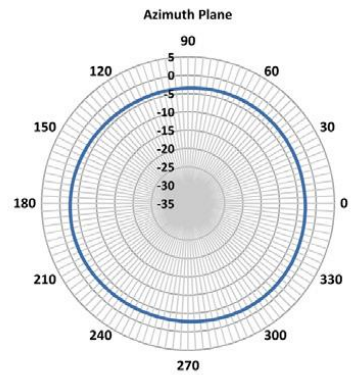
430 MHz



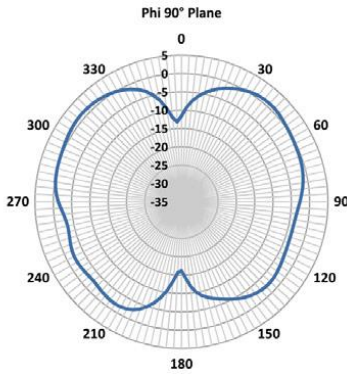
406 MHz



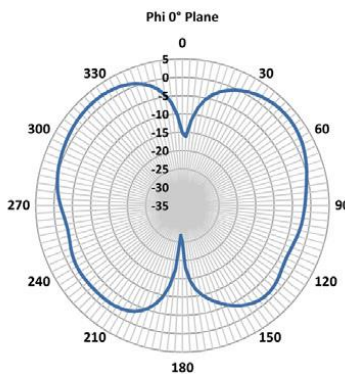
380 MHz



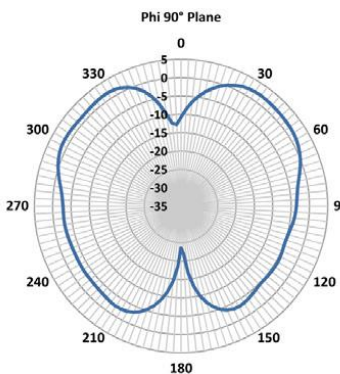
512 MHz



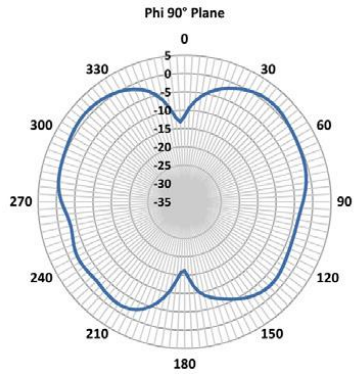
490 MHz



440 MHz



410 MHz



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