

LT-ANT146-160-5

VHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT146-160-5 is a VHF base station antenna optimized for the 140–160 MHz band. It provides 5 dBi omnidirectional gain with 500 W maximum input power, making it suitable for professional and mission-critical wide-area coverage. Its 3.58 m fiberglass radome ensures mechanical strength, weather resistance, and long-term outdoor reliability.

Key Features

- Frequency range: 140–160 MHz
- 5 ± 1 dBi omnidirectional gain
- 500 W maximum input power
- Wide vertical beamwidth (35°) for broad coverage
- N Female connector, bottom mounted
- DC grounded lightning protection
- Strong PIM rating (PIP: 600 W)
- Rugged fiberglass radome, IP24/IP65 ingress protection
- Supplied with butterfly mounting kit, fits poles Ø80–95 mm

Feature	LT-ANT146-160-5
Frequency Range	140–160 MHz
Bandwidth	20 MHz
Gain	5 ± 1 dBi
Pattern Shape	Omnidirectional
Vertical Beamwidth	35°
Horizontal Beamwidth	360°
Intermodulation (IM3)	PIP: 600 W
VSWR	≤ 2
Impedance	50 Ω
Polarization	Vertical
Max. Power	500 W
Lightning Protection	DC Grounded
Ingress Protection	IP24 (IP65 blocking leak test)
Connector	N Female
Connector Position	Bottom
Length	3580 mm
Diameter	70 mm
Weight	5.3 \pm 0.2 kg (excluding bracket)
Radome	Blue Fiberglass
Pole Diameter	Ø80–95 mm
Rated Wind Velocity	60 m/s
Mounting Kit	Butterfly

Applications

VHF base station and repeater networks
Public safety and emergency communications
Aviation, marine, and transportation networks
Critical infrastructure coverage
Wide-area urban and rural deployments

Ordering Information

The LT-ANT146-160-5 belongs to the VHF Mid Power Antenna Series (5 dBi, 500 W, 3.5–4.0 m radome).

Other available models in this series include:

LT-ANT118-132-5 (118–132 MHz)
LT-ANT132-146-5 (132–146 MHz)
LT-ANT158-172-5 (158–172 MHz)

Custom options are available upon request, including specific frequency ranges, connector types, and channel bandwidths.

