

# LT-ANT406-430DM-9

## UHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT406-430DM-9 is a UHF high-gain base station antenna designed for the 406–430 MHz band. It delivers 9 dBi omnidirectional gain and supports up to 500 W input power, ensuring reliable wide-area coverage for professional and mission-critical networks. Featuring a 3.2 m fiberglass radome and optimized for low passive intermodulation (PIM), this antenna is engineered for stability, efficiency, and long-term outdoor durability.

### Key Features

- Frequency range: 406–430 MHz
- High gain 9±1 dBi omnidirectional performance
- 500 W maximum input power
- Low VSWR ( $\leq 1.5$ ) for efficient transmission
- Excellent intermodulation performance ( $IM3 \leq -150$  dBc)
- DC grounded lightning protection
- Rugged 3.2 m fiberglass radome, IP24/IP65 ingress protection
- Supplied with butterfly mounting kit, fits poles Ø80–95 mm

Feature	LT-ANT406-430DM-9
Frequency Range	406–430 MHz
Bandwidth	24 MHz
Gain	9±1 dBi
Pattern Shape	Omnidirectional
Vertical Beamwidth	13°
Horizontal Beamwidth	360°
Intermodulation (IM3)	$\leq -150$ dBc
VSWR	$\leq 1.5$
Impedance	50 $\Omega$
Polarization	Vertical
Max. Power	500 W
Lightning Protection	DC Grounded
Ingress Protection	IP24 (IP65 blocking leak test)
Connector Position	Bottom
Length	3205 ±20 mm
Diameter	70 mm
Weight	5.5 ±0.2 kg (without bracket)
Radome	Blue Fiberglass
Pole Diameter	Ø80–95 mm
Rated Wind Velocity	60 m/s
Mounting Kit	Butterfly

### Applications

UHF base stations and repeater systems  
Public safety and emergency communications  
Transportation and utility networks  
Critical infrastructure coverage  
Rural and urban wide-area networks

### Ordering Information

The LT-ANT406-430DM-9 belongs to the UHF High-Gain Antenna Series (9 dBi, 500 W, 3.2 m radome).

Other available models in this series include:  
LT-ANT400-425-9 (400–425 MHz)  
LT-ANT430-450-9 (430–450 MHz)  
LT-ANT450-470-9 (450–470 MHz)  
LT-ANT400-425DM-9 (400–425 MHz)  
LT-ANT425-450DM-9 (425–450 MHz)  
LT-ANT450-470DM-9 (450–470 MHz)

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

