

LT-ANT450-470DM-9

UHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT450-470DM-9 is a UHF high-gain base station antenna optimized for the 450–470 MHz band. Delivering 9 dBi omnidirectional gain with 500 W input power capacity, it ensures robust wide-area coverage for professional and mission-critical communication systems. Designed with a 3.2 m fiberglass radome and superior low passive intermodulation (PIM) performance, this antenna provides reliable and stable operation in demanding outdoor environments.

Key Features

- Frequency range: 450–470 MHz
- High gain 9±1 dBi omnidirectional coverage
- 500 W maximum input power
- Low VSWR (≤ 1.5) for efficient performance
- 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-ANT450-470DM-9
Frequency Range	450–470 MHz
Bandwidth	20 MHz
Gain	9±1 dBi
Pattern Shape	Omnidirectional
Vertical Beamwidth	13°
Horizontal Beamwidth	360°
Intermodulation (IM3)	≤ -150 dBc
VSWR	≤ 1.5
Impedance	50 Ω
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-ANT450-470DM-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-ANT406-430DM-9 (406–430 MHz)
LT-ANT425-450DM-9 (425–450 MHz)

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

