LT-ANT425-450DM-9

UHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT425-450DM-9 is a UHF high-gain base station antenna optimized for the 425−450 MHz band. With 9 dBi omnidirectional gain and a 500 W power rating, it is engineered to deliver reliable wide-area coverage for mission-critical communication systems. Its 3.2 m fiberglass radome provides long-term durability, while its low passive intermodulation (PIM) performance ensures network efficiency and stability.

Key Features

• Frequency range: 425−450 MHz
• High gain 9±1 dBi omnidirectional coverage
• 500 W maximum input power
• Low VSWR (≤1.5) for efficient operation
• Excellent intermodulation performance (IM3 ≤ -150 dBc)
• DC grounded lightning protection
• Durable 3.2 m fiberglass radome, IP24/IP65 ingress protection
• Supplied with butterfly mounting kit, for poles Ø80−95 mm

Feature	LT-ANT425-450DM-9
Frequency Range	425–450 MHz
Bandwidth	25 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-ANT425-450DM-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-ANT450-470DM-9 (450−470 MHz)

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