

LT-ANT300-320-DM9

UHF TETRA High-Gain Base Station Antenna

The Lamatel LT-ANT300-320-DM9 is a high-performance UHF omni-directional base antenna engineered for exceptional reliability, stability, and superior gain across the 300–320 MHz frequency range. Designed for TETRA and multipoint UHF systems, this antenna delivers clear, uninterrupted communication in both fixed and mobile network environments.

With a durable fiberglass radome construction and precision-engineered components, it ensures long-term performance in challenging outdoor conditions – from high winds to extreme temperatures. Whether deployed in mission-critical communications, industrial SCADA systems, or private radio networks, the LT-ANT300-320-DM9 offers consistent signal strength and robust connectivity.

Key Features

- **Wide Frequency Range:** Operates efficiently within 300–320 MHz, ensuring flexibility for various UHF and TETRA applications.
- **High Gain Performance:** Offers 9 dBi gain for strong, wide-area signal transmission and reception.
- **Omnidirectional Coverage:** Provides 360° horizontal coverage, ensuring seamless connectivity in all directions.
- **Superior Power Handling:** Rated up to 500 W, suitable for high-power base station setups.
- **Low VSWR (≤ 1.5):** Ensures maximum transmission efficiency with minimal reflection loss.

Parameter	Specification
Model	LT-ANT300-320-DM9
Frequency Range	300–320 MHz
Antenna Gain	9 dBi
Power Rating	500 W
Impedance	50 Ω
VSWR	≤ 1.5
Pattern	Omnidirectional
Vertical Beamwidth	16°
Termination	7/16 DIN-Female
Dimensions (L × Base Ø)	Φ70 × (4000 ± 20) mm
Installed Weight (Antenna + Clamps)	6.5 ± 0.3 kg
Fiberglass Color	Blue
Wind Rating	60 m/s
Maximum Exposed Area	2.02 ft ²
Lateral Thrust @100 mph	8.4 kgf
PIM	≤ -150 dBc (@2×43 dBm)



Applications

Tetra 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-ANT300-320-DM9 belongs to the UHF High Power Antenna Series (9 dBi, 500W, slim 3 m radome).

Other available models in this series :

LT-ANT340-360-DM9 (340-360MHz)
LT-ANT372-400D-8 (372-400 MHz)
LT-ANT300-320DM-9 (300-320 MHz)
LT-ANT350-375DM-8 (350-375MHz)
LT-ANT372-400D-8 (372-400 MHz)

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

