LT-ANTD4-406-512-1

UHF 4-ELEMENT DIPOLE ANTENNA

The LT-ANTD4-406-512-11 is a 4-element UHF dipole antenna optimized for the 406–512 MHz band. With up to 11.2 dBi gain and 300 W input power capacity, it provides high-performance coverage for base stations, repeaters, and professional communication networks. Its dipole array structure allows for customizable radiation patterns such as omnidirectional, cardioid, or bidirectional, offering deployment flexibility. Built from fiberglass and aluminum alloy, this antenna is engineered for reliable long-term service in challenging outdoor environments.

Key Features

- Frequency range: 406–512 MHz
- High gain: 8.15–11.2 dBi
- 300 W maximum input power
- Configurable radiation pattern: omni, cardioid, or bidirectional
- Broadband performance with VSWR ≤1.5
- DC grounded for integrated lightning protection
- Rugged fiberglass and aluminum alloy construction
- Supplied with stainless steel mast mounting hardware

Feature	LT-ANTD4-406-512-11
Frequency Range	406–512 MHz
Gain	8.15–11.2 dBi
Vertical Beamwidth	18°
VSWR	≤ 1.5
Impedance	50 Ω
Max. Power	300 W
Polarization	Vertical
Connector	N Female or 7/16 DIN
Dimensions (H × D)	2370 × 400 mm
Weight	11.5 kg (antenna + clamps)
Lightning Protection	DC Grounded
Wind Rating	60 m/s

Applications

UHF base station and repeater systems
Public safety and emergency communication networks
Utility and transportation networks
Industrial and infrastructure coverage
Rural and suburban wide-area deployments

Ordering Information

The LT-ANTD4-406-512-11 belongs to the Dipole Antenna Series (1, 2, and 4-element options).
Other available models in this series include:

LT-ANTD1-145-175-5 (145–175 MHz, 1-element)
LT-ANTD1-380-470-5 (380–470 MHz, 1-element)
LT-ANTD2-145-175-7 (145–175 MHz, 2-element)
LT-ANTD2-380-470-7 (380–470 MHz, 2-element)
LT-ANTD4-144-174-11 (144–174 MHz, 4-element)
LT-ANTD4-380-470-11 (380–470 MHz, 4-element)

Custom options are available upon request, including frequency tuning, connector types, and mounting configurations.