

LT-ANTD4-144-174-11

VHF 4-ELEMENT DIPOLE ANTENNA

The LT-ANTD4-144-174-11 is a 4-element VHF dipole antenna designed for the 144–174 MHz band. With 11 dBi gain and 300 W power handling, it provides high-performance coverage suitable for demanding base station and repeater applications. Its broadband dipole array design enables customizable radiation patterns (omni, cardioid, or bidirectional), making it versatile for both wide-area and targeted deployments. Built with fiberglass and aluminum alloy, it ensures long-term reliability in outdoor environments.

Key Features

- Frequency range: 144–174 MHz
- High gain: 11 dBi
- 300 W maximum input power
- Broadband operation with VSWR ≤ 1.5
- Configurable arrays for omni, cardioid, or bidirectional coverage
- DC grounded lightning protection
- Constructed with fiberglass and aluminum for durability

Feature	LT-ANTD4-144-174-11
Frequency Range	144–174 MHz
Gain	11 dBi
VSWR	≤ 1.5
Impedance	50 Ω
Polarization	Vertical
Power Handling	300 W
Connector	N Female (7/16 DIN optional)
Radiation Pattern	4-element dipole array
Length	~3.5 m
Weight	~12 kg
Wind Rating	60 m/s
Material	Aluminum + Fiberglass
Mounting	Stainless steel hardware, mast $\varnothing 40\text{--}60$ mm



Applications

- VHF base station and repeater systems
- Public safety and emergency networks
- Transportation and utility communications
- Industrial and infrastructure coverage
- Long-range wide-area deployments requiring high gain

Ordering Information

The LT-ANTD4-144-174-11 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-ANTD4-380-470-11 (380–470 MHz, 4-element)
- LT-ANTD4-406-512-11 (406–512 MHz, 4-element)

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

Product specifications are subject to change without prior notice.
For more information, visit www.lamatel.com or send an email to sales@lamatel.com

