

# RansNet ANT-520M

Dual-Band | High-Gain | Long-Range

High-Gain Omnidirectional Wi-Fi Antenna  
Optimized for Wide Range & Performance



RansNet ANT-520M is an outdoor monopole omnidirectional Wi-Fi antenna, engineered to deliver stable and extended wireless coverage, up to 300 meters in open environments.

Combined with RansNet multi-hop self-healing mesh technology, the ANT-520M optimizes WLAN reachability, performance, and reliability.

## Key Features

- Omnidirectional radiation pattern (360° horizontal coverage)
- Supports 2.4 GHz and 5 GHz Wi-Fi bands
- Compact, lightweight, and low-profile form factor
- Rugged outdoor-rated enclosure (UV-resistant)
- Suitable for pole-mount, wall-mount, or direct device mounting

## Applications

- Outdoor Wi-Fi access points
- Industrial and warehouse wireless networks
- Smart city and public Wi-Fi hotspots
- Wireless bridges and outdoor CPE devices

Electrical Specifications	
Frequency Range (MHz)	2400–2500 / 5150–5850
Bandwidth (MHz)	100 / 700
Polarization	Vertical
VSWR	≤ 1.92
Return Loss (dB)	≤ -15
Max Input Power Handling (W)	≥ 100
Impedance (Ω)	50
High gain options (dBi)	6 (2.4 GHz) / 8 (5.8 GHz)
Horizontal Beamwidth (°)	360
Ovality	≤2dB

Mechanical Specifications	
Connector Type	N-female
Antenna Dimensions (mm)	∅20*350
Antenna Weight (kg)	0.226
Installation Kit Weight (kg)	0.2
Radome Material	Glass fiber reinforced plastic
Mounting Bracket Material	Galvanized steel

Environmental Specifications	
Operating Temperature (°C)	-40 ~ +55
Humidity Resistance	≤ 95% RH (non-condensing)
Salt Fog Resistance	≥ 96 hrs per IEC 60068-2-11
UV Resistance	Yes, UV-stabilized radome
Lightning Protection	DC Grounded
Regulatory & Compliance	CE, FCC, IP67

