

Overview

Kymata introduces the ANT5GL Series Antennas, designed for Mobile Private Networks (MPN) and Wi-Fi. These antennas deliver exceptional performance in the 3.2–3.8 GHz private 5G band and Wi-Fi frequencies, enabling seamless integration of public and private networks in industrial and logistical environments. The ANT5GL series provides reliable and cost-effective solutions for complex radio coverage needs, addressing the most demanding industrial and institutional applications.

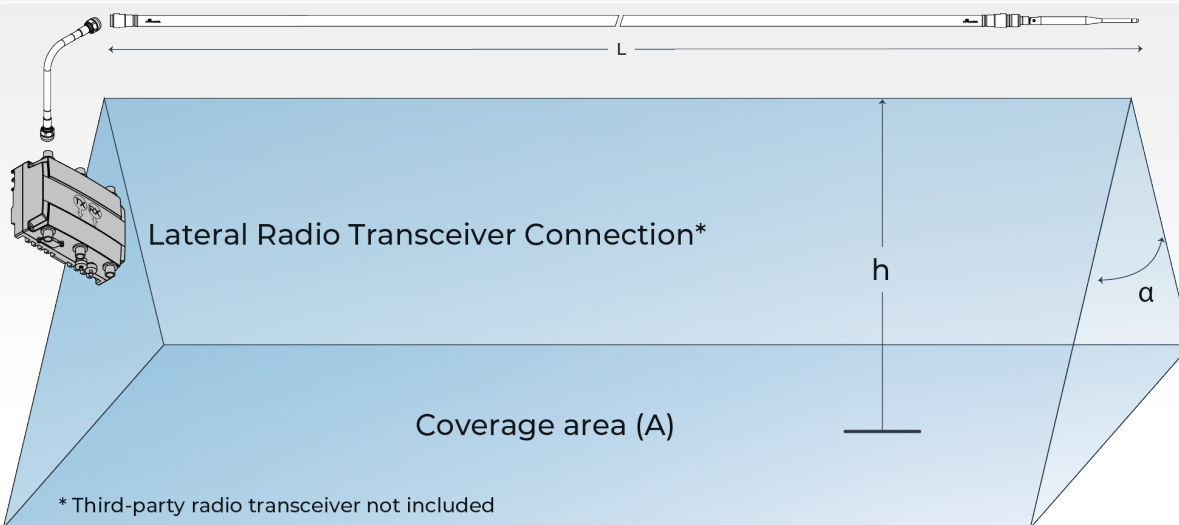
ANT5GL Series Antennas

The ANT5GL is a broadband, single-branch antenna optimized for the 3.2–3.8 GHz private 5G band and Wi-Fi, ensuring extended and consistent coverage. Powered by Kymata's SmartMIMO technology, it supports 2x2 MIMO for superior signal stability and throughput compared to traditional systems. Customizable in length (20–70 meters), it offers flexible installation and robust mounting options for large-scale environments.



Key Features

- **Optimized for 5G and Wi-Fi:** High performance in 3.2–3.8 GHz private 5G and Wi-Fi frequencies.
- **Extended Coverage:** Increases coverage area by over 50%.
- **Improved Stability and Throughput:** Ensures reliable connectivity and boosts throughput by 80%.
- **Seamless Integration:** Supports integration of private/public 5G and Wi-Fi networks.
- **SmartMIMO Technology:** Maximizes performance for 5G and Wi-Fi 6.
- **Simplified Maintenance:** Easy upkeep for critical applications.



Definition of design parameters for selecting the most suitable model according to specific requirements

L = total length of the antenna

h = height above ground level of the antenna

A = nominal coverage area with average signal strength on the ground >-82dBm

a = nominal antenna aperture angle

Related Accessories

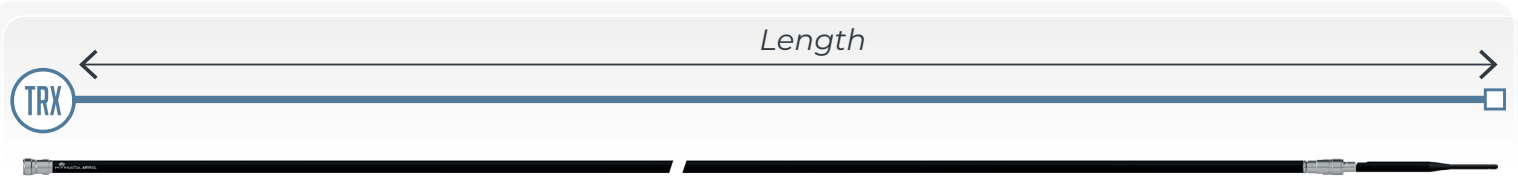
Mounting Kit: MKT1H1 — MKT601 — MKT1H0 — MKT600 — MKT1HX — MKT60X

Jumpers: JMPRPSMANM — JMPNMNM

Integrated Passive Devices: IPD11HS — IPD11CS

Amplifiers: AMP2 — AMP5 — AMP2SM — AMP5SM

Diplexer/Coupler: IPD25D — IPD3BAND

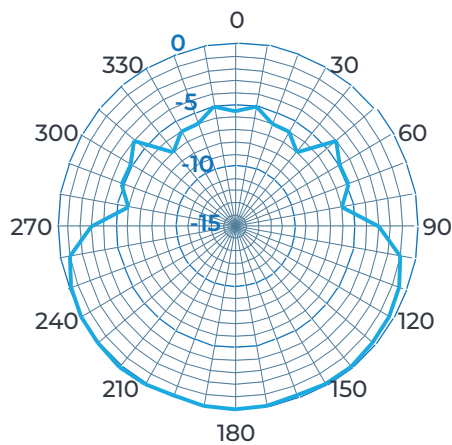


Technical specifications

Product Code	ANT5G L20	ANT5G L30	ANT5G L40	ANT5G L50	ANT5G L60	ANT5G L70
Operating Band	1.5 GHz ~ 6 GHz					
TRX Connector Position	Lateral					
Overall Length L	up to 20 m	up to 30 m	up to 40 m	up to 50 m	up to 60 m	up to 70 m
Coverage Area @ 3.8GHz @ h = 8m (μ BTS)	1.500 m ²	2.000 m ²	2.500 m ²	3.000 m ²	3.500 m ²	4.000 m ²
Average Gain @ 3.5 GHz	-22 \pm 3 dBi	-23 \pm 3 dBi	-24 \pm 3 dBi	-26 \pm 3 dBi	-27 \pm 3 dBi	-28 \pm 3 dBi
-3 dB Angle (a) in H-plane	160°					
Front-to-Back Ratio	5 dB					
Average Coupling Loss @ 3.5 GHz	70 dB \pm 2 dB					
Characteristic Impedance	50 Ω					
Minimum Bend Radius	200 mm					
TRX Connector Type	Nf (a specific jumper is required to connect the BTS)					
Operating Temperature	from -50° C to +85° C					
Diameter	17 mm					
Clearance Distance*	100 mm					
Certifications	IEC 60754-1/-2; IEC 61034; IEC 60332-1; IEC 60332-3-24; CPR: Cca s1 d0 a1, EN50575-2017					

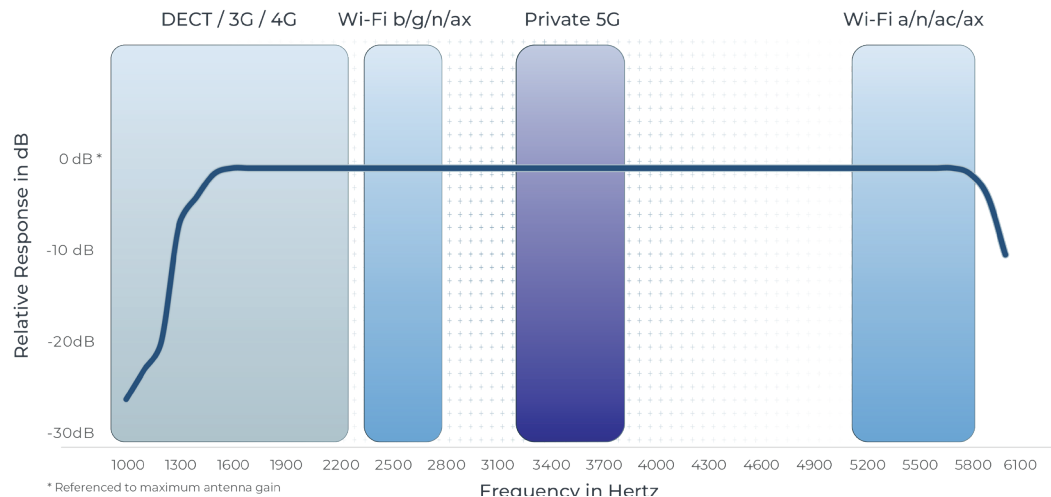
*Minimum distance to be maintained during installation between the Kymata antenna and walls or other surfaces

Radiation pattern



Trasversal plan (radial)

Frequency response



* Referenced to maximum antenna gain