

## Overview

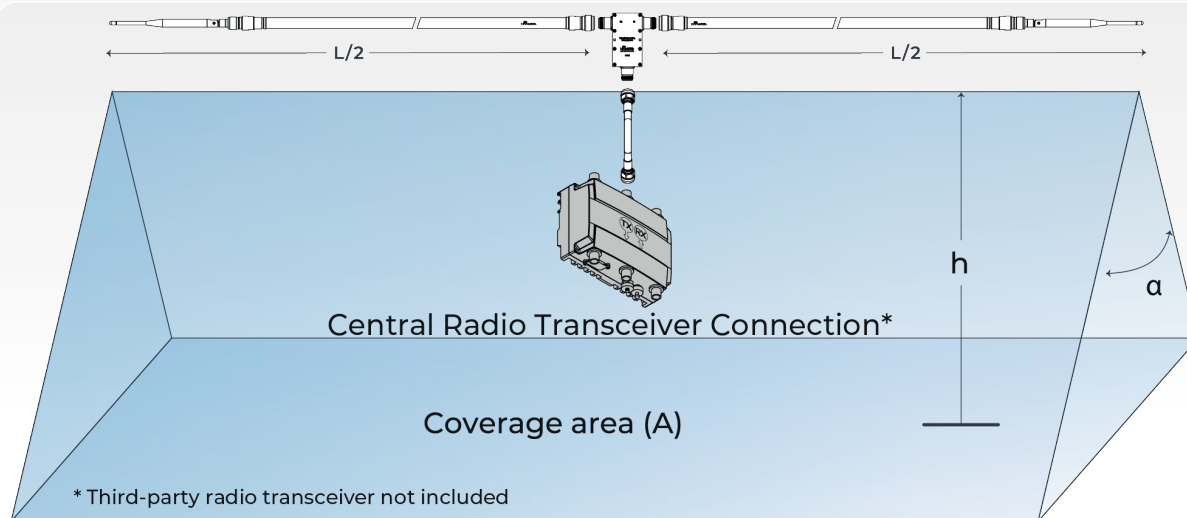
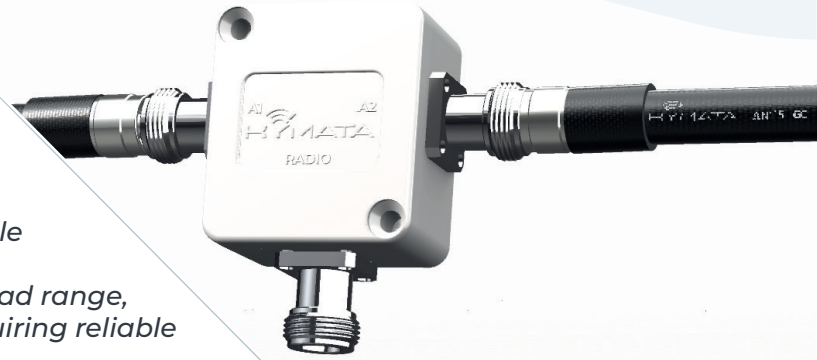
Kymata introduces the ANT5GC Series Antennas, designed for Mobile Private Networks (MPN). This customizable-length, double-branch antenna with a central transceiver connection ensures high performance in the private 5G band (3.2–3.8 GHz) while supporting Wi-Fi frequencies. The ANT5GC delivers extended coverage across a broad range, ideal for industrial and institutional applications requiring reliable radio solutions.

## ANT5GC Series Antennas

The ANT5GC is a broadband, double-branch antenna optimized for the private 5G band (3.2–3.8 GHz) and compatible with Wi-Fi, ensuring robust connectivity and extended coverage. With its central transceiver connection, it enables seamless integration and superior radio performance across 1.5 to 6 GHz. The antenna is customizable in length (40–90 meters) and offers versatile mounting options, tailored to large-scale environments and demanding applications.

## 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.
- **Centralized Connectivity:** Features a central radio transceiver connection, simplifying deployment and maintenance 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

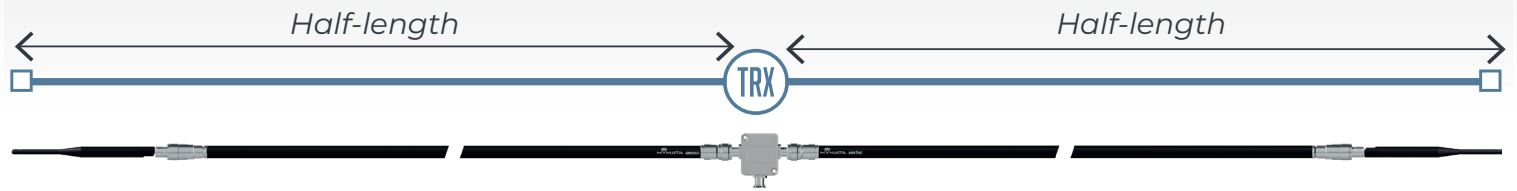
Mounting Kit: MKT1H1 — MKT601 — MKT1H0 — MKT600 — MKT1HX — MKT60X

Jumpers: JMPRPSMANM — JMPNMNM

Integrated Passive Devices: IPD11HS — IPD11CS

Amplifiers: AMP2 — AMP5 — AMP2SM — AMP5SM

Diplexer/Coupler: IPD25D — IPD3BAND

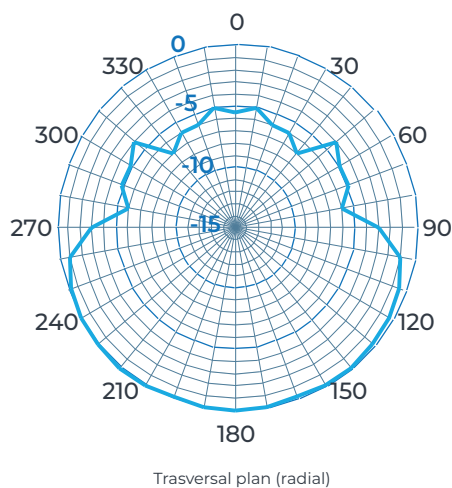


## Technical specifications

Product Code	ANT5G C40	ANT5G C50	ANT5G C60	ANT5G C70	ANT5G C80	ANT5G C90
Operating Band	1.5 GHz ~ 6 GHz					
TRX Connector Position	Central					
Overall Length L	up to 40 m	up to 50 m	up to 60 m	up to 70 m	up to 80 m	up to 90 m
Coverage Area @ 3.8GHz @ h = 8m (μBTS)	2.200 m <sup>2</sup>	2.750 m <sup>2</sup>	3.300 m <sup>2</sup>	3.850 m <sup>2</sup>	4.400 m <sup>2</sup>	4.800 m <sup>2</sup>
Average Gain @ 3.5 GHz	-25 ± 3 dBi	-26 ± 3 dBi	-27 ± 3 dBi	-29 ± 3 dBi	-30 ± 3 dBi	-31 ± 3 dBi
-3 dB Angle (α) in H-plane	160°					
Front-to-Back Ratio	5 dB					
Average Coupling Loss @ 3.5 GHz	73 dB ± 2 dBi					
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



## Frequency response

