

## Overview

Kymata delivers a groundbreaking solution for indoor and outdoor radio coverage in extensive logistical and industrial areas. Kymata Antennas and Amplifiers effectively and economically resolve signal issues, ensuring superior performance. With intuitive management through a web interface and SNMP, complete and immediate control of industrial wireless networks is achievable.

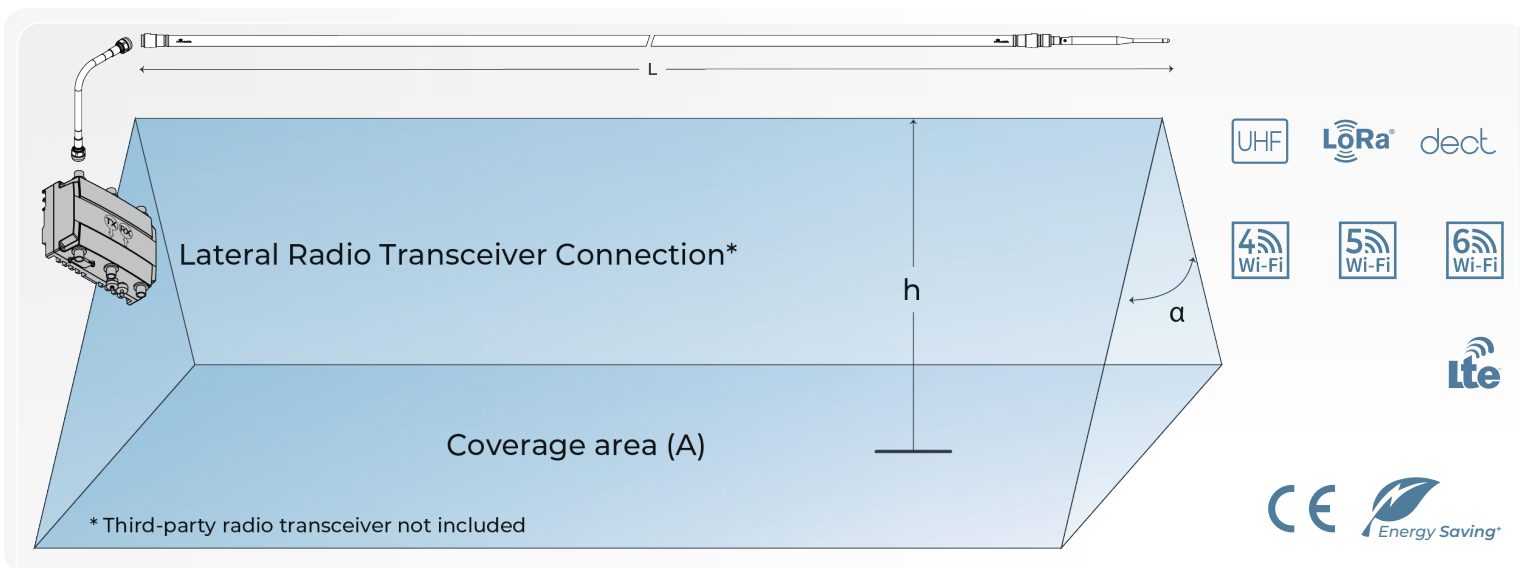


## ANT2L Series Antennas

The ANT2L antenna is a customizable, single-branch solution with a lateral connection for the radio transceiver. It delivers exceptional radio coverage performance over a broad frequency range from 600 to 3000MHz, and supports the 5150-5500MHz band when paired with AMP5 amplifiers. This antenna is ideal for a wide variety of applications, including Wi-Fi 802.11a/b/g/n/ac/ax, LoRa/LoRaWAN, 2G and 4G mobile networks, and DECT1900.

The ANT2L integrates seamlessly with any Wi-Fi 802.11a/b/g/n/ac/ax access point, whether new or existing, and is compatible with any radio device operating within the 600MHz to 5.5GHz frequency range that features a removable external antenna.

Optimized for low-frequency Wi-Fi bands (2.4-2.5GHz), the ANT2L ensures uniform signal distribution across the area of interest. Furthermore, ANT2 models are typically used in conjunction with Kymata's AMP2 and AMP5 series amplifiers, providing enhanced power and flexibility to your radio coverage solution.



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

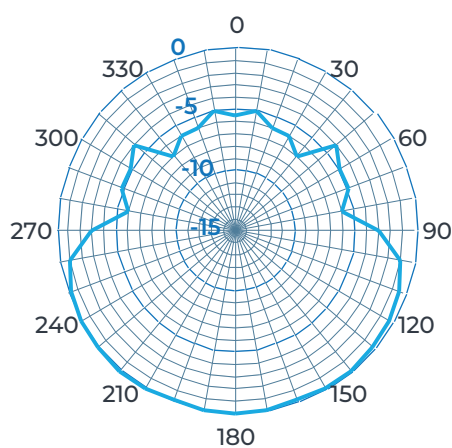


## Technical specifications

Product Code	ANT2 L20	ANT2 L30	ANT2 L40	ANT2 L50	ANT2 L60	ANT2 L70
Operating Band	600 MHz ~ 5.5 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 (A) @ 2.4 GHz @ h = 8 m	1.400 m <sup>2</sup>	2.100 m <sup>2</sup>	2.800 m <sup>2</sup>	3.000 m <sup>2</sup>	3.600 m <sup>2</sup>	3.900 m <sup>2</sup>
Coverage Area (A) @ 5.2 GHz @ h = 8 m	750 m <sup>2</sup>	1.050 m <sup>2</sup>	1.350 m <sup>2</sup>	1.400 m <sup>2</sup>	1.650 m <sup>2</sup>	1.900 m <sup>2</sup>
Average Gain @ 2.4 GHz	-12 ± 3 dBi	-13 ± 3 dBi	-14 ± 3 dBi	-16 ± 3 dBi	-17 ± 3 dBi	-18 ± 3 dBi
Average Gain @ 5.2 GHz	-31 ± 3 dBi	-32 ± 3 dBi	-33 ± 3 dBi	-35 ± 3 dBi	-37 ± 3 dBi	-39 ± 3 dBi
-3 dB Angle (α) in H-plane	160°					
Longitudinal Electrical Tilt	80° @ 2.4 GHz - 45° @ 5.8 GHz					
Front-to-Back Ratio	5 dB					
Average Coupling Loss @ 2.4 GHz	61 dB ± 2 dBi					
Average Coupling Loss @ 5.2 GHz	76 dB ± 2 dBi					
Characteristic Impedance	50 Ω					
Minimum Bend Radius	200 mm					
TRX Connector Type	Nf (a specific jumper JMPX is required to connect the AP)					
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					

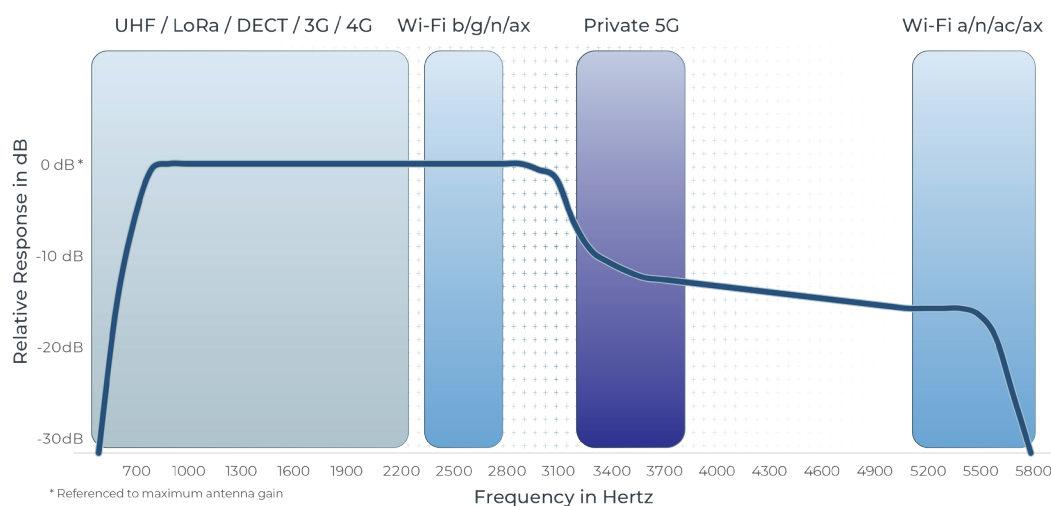
\*Minimum distance to be maintained during installation between the Kymata antenna and walls or other surfaces

## Radiation pattern



Trasversal plan (radial)

## Frequency response



\* Referenced to maximum antenna gain