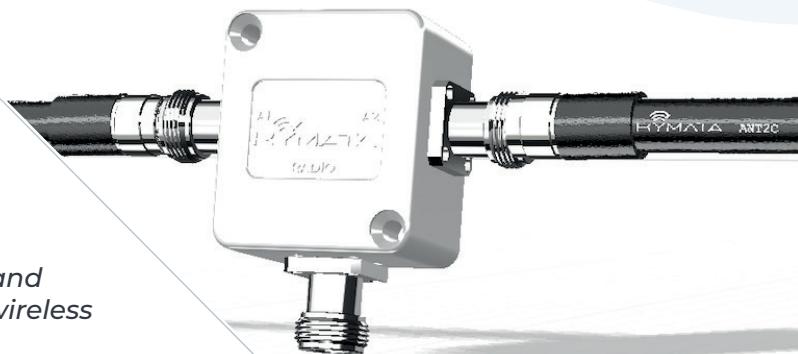


Overview

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.

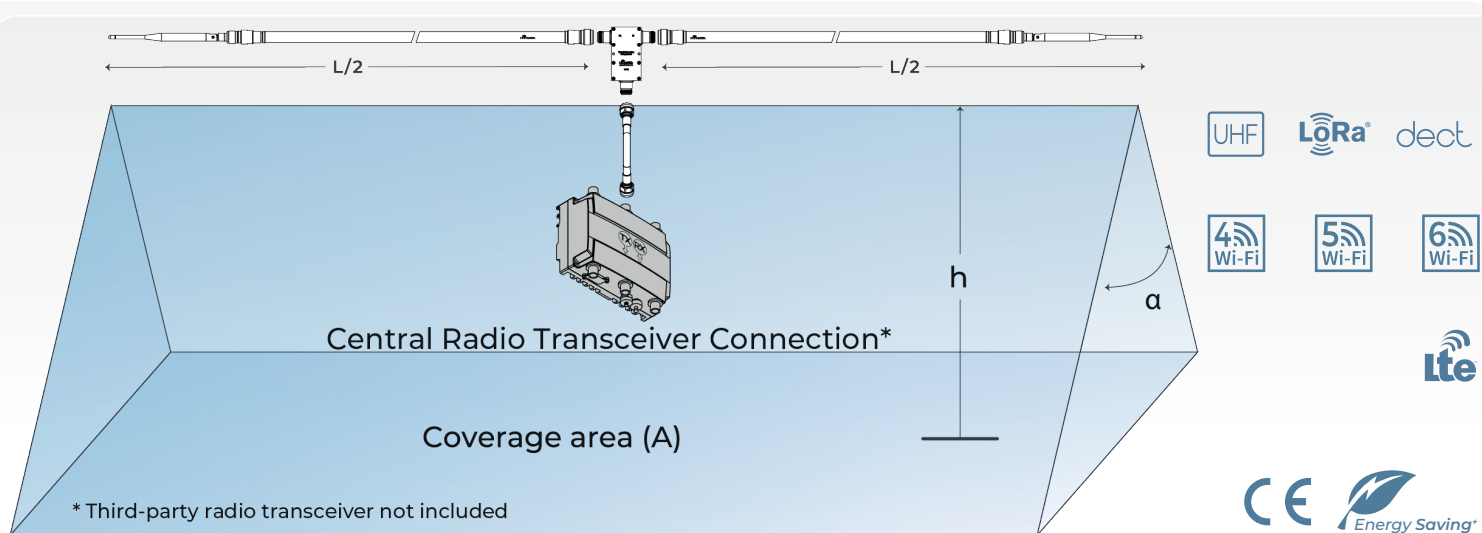


ANT2C Series Antennas

The ANT2C antenna is a customizable, double-branch solution with a central 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 ANT2C 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 ANT2C 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

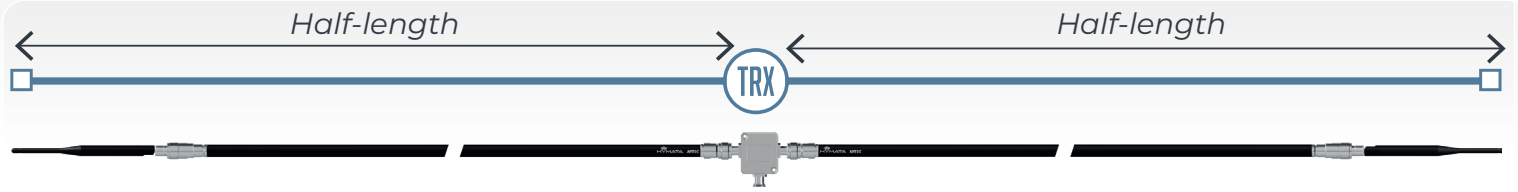
Mounting Kit: MKT1H1 — MKT601 — MKT1H0 — MKT600 — MKT1HX — MKT60X

Jumpers: JMPRPSMANM — JMPNMNM

Integrated Passive Devices: IPD11HS — IPD11CS

Amplifiers: AMP2 — AMP5 — AMP2SM — AMP5SM

Diplexer/Coupler: IPD25D — IPD3BAND

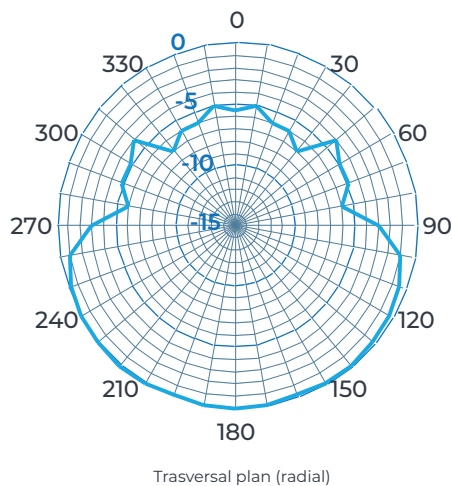


Technical specifications

Product Code	ANT2 C40	ANT2 C50	ANT2 C60	ANT2 C70	ANT2 C80	ANT2 C90	ANT2 C1H
Operating Band	1.5 GHz ~ 6.2 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	up to 100 m
Coverage Area (A) @ 2.4 GHz @ h = 8 m	2.400 m ²	3.000 m ²	3.600 m ²	4.200 m ²	4.400 m ²	4.950 m ²	5.500 m ²
Coverage Area (A) @ 5.2 GHz @ h = 8 m	1.250 m ²	1.400 m ²	1.600 m ²	1.850 m ²	2.000 m ²	2.200 m ²	
Average Gain @ 2.4 GHz	-15 ± 3 dBi	-16 ± 3 dBi	-16 ± 3 dBi	-17 ± 3 dBi	-17 ± 3 dBi	-18 ± 3 dBi	-18 ± 3 dBi
Average Gain @ 5.2 GHz	-34 ± 3 dBi	-35 ± 3 dBi	-36 ± 3 dBi	-37 ± 3 dBi	-38 ± 3 dBi	-39 ± 3 dBi	
-3 dB Angle (a) 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	64 dB ± 2 dBi						
Average Coupling Loss @ 5.2 GHz	79 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



Frequency response

