

Overview

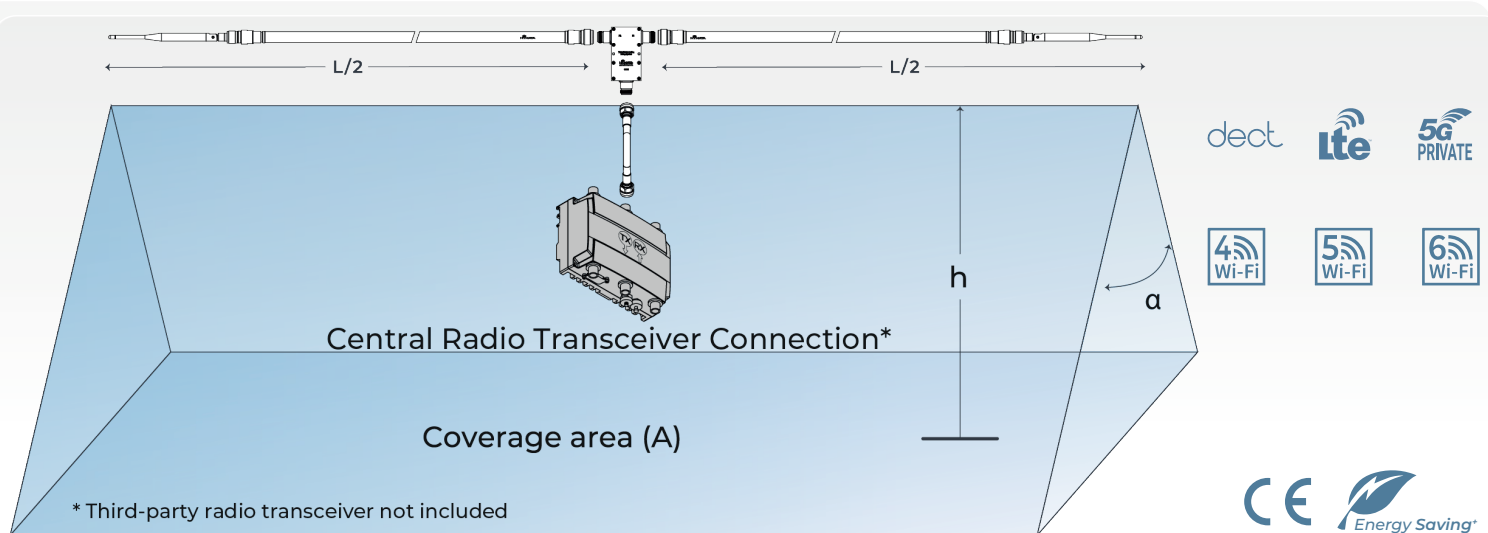
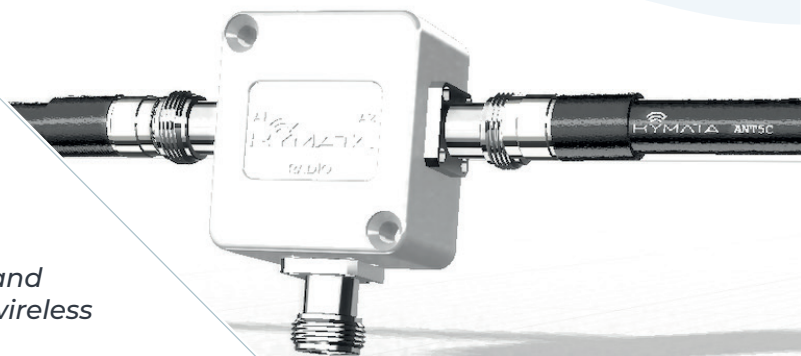
Kymata delivers a groundbreaking solution for indoor and outdoor radio coverage in extensive logistical and industrial areas. Kymata Antennas and Amplifiers effectively and economically resolve signal issues, ensuring superior performance. With intuitive management through a web interface and SNMP, complete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

ANT5C Series Antennas

The ANT5C is a customizable, broadband, double-branch antenna with a central connection for the radio transceiver. It ensures extended and consistent radio coverage performance over a wide frequency range from 1.5 to 6 GHz, making it ideal for a variety of applications, including Wi-Fi 802.11a/b/g/n/ac/ax, 4G/5G mobile networks, and DECT1900.

Designed for seamless integration, the ANT5C is compatible with any radio device operating within the 1.5 to 6 GHz range and featuring a removable external antenna.

Optimized across the 1.5 GHz to 6 GHz spectrum, the ANT5C ensures uniform signal distribution throughout the coverage area. With customizable lengths from 40 to 90 meters and a central transceiver connection, it provides flexible installation options. When paired with Kymata's amplifier series, the ANT5C delivers enhanced power and flexibility, making it an ideal solution for high-performance and large-scale radio coverage needs.



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

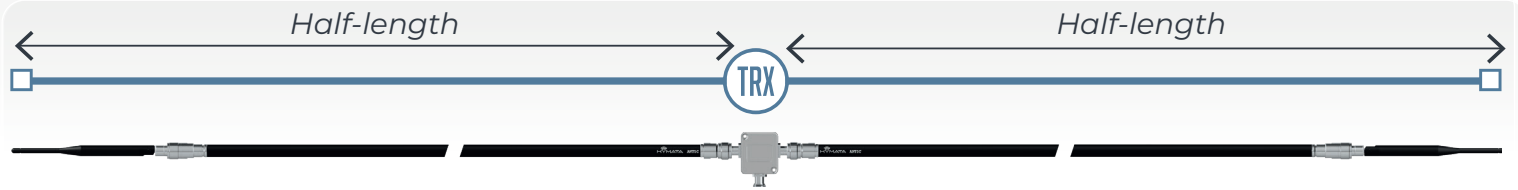
Mounting Kit: MKT1H1 — MKT601 — MKT1H0 — MKT600 — MKT1HX — MKT60X

Jumpers: JMPRPSMANM — JMPNMNM

Integrated Passive Devices: IPD11HS — IPD11CS

Amplifiers: AMP2 — AMP5 — AMP2SM — AMP5SM

Diplexer/Coupler: IPD25D — IPD3BAND

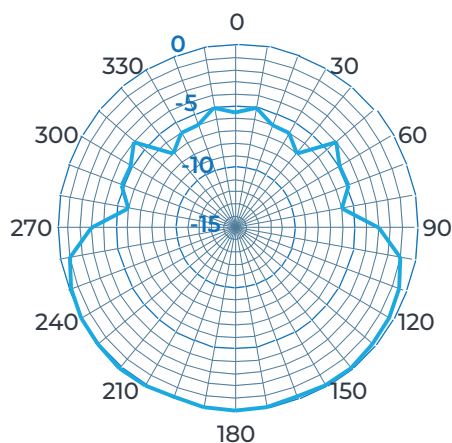


Technical specifications

Product Code	ANT5 C40	ANT5 C50	ANT5 C60	ANT5 C70	ANT5 C80	ANT5 C90
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
Coverage Area (A) @ 2.4 GHz @ h = 8 m	2.200 m ²	2.750 m ²	3.300 m ²	3.850 m ²	4.400 m ²	4.800 m ²
Coverage Area (A) @ 5.2 GHz @ h = 8 m	1.950 m ²	2.250 m ²	2.450 m ²	2.650 m ²	2.750 m ²	2.850 m ²
Average Gain @ 2.4 GHz	-25 ± 3 dBi	-26 ± 3 dBi	-27 ± 3 dBi	-29 ± 3 dBi	-30 ± 3 dBi	-31 ± 3 dBi
Average Gain @ 5.2 GHz	-26 ± 3 dBi	-27 ± 3 dBi	-28 ± 3 dBi	-30 ± 3 dBi	-31 ± 3 dBi	-33 ± 3 dBi
-3 dB Angle (α) in H-plane	160°					
Longitudinal Electrical Tilt	60° @ 2.4 GHz - 50° @ 5.8 GHz					
Front-to-Back Ratio	5 dB					
Average Coupling Loss @ 2.4 GHz	73 dB ± 2 dBi					
Average Coupling Loss @ 5.2 GHz	74 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					

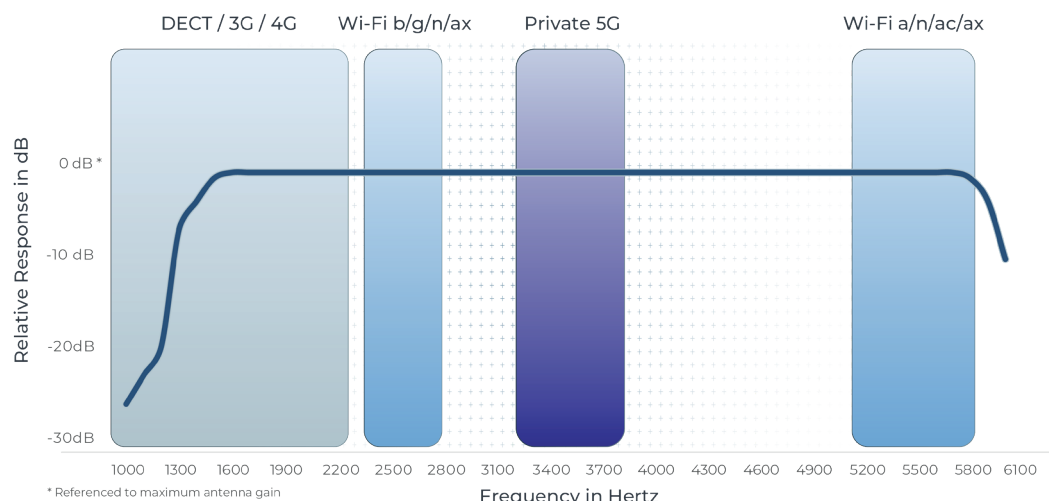
*Minimum distance to be maintained during installation between the Kymata antenna and walls or other surfaces

Radiation pattern



Trasversal plan (radial)

Frequency response



* Referenced to maximum antenna gain