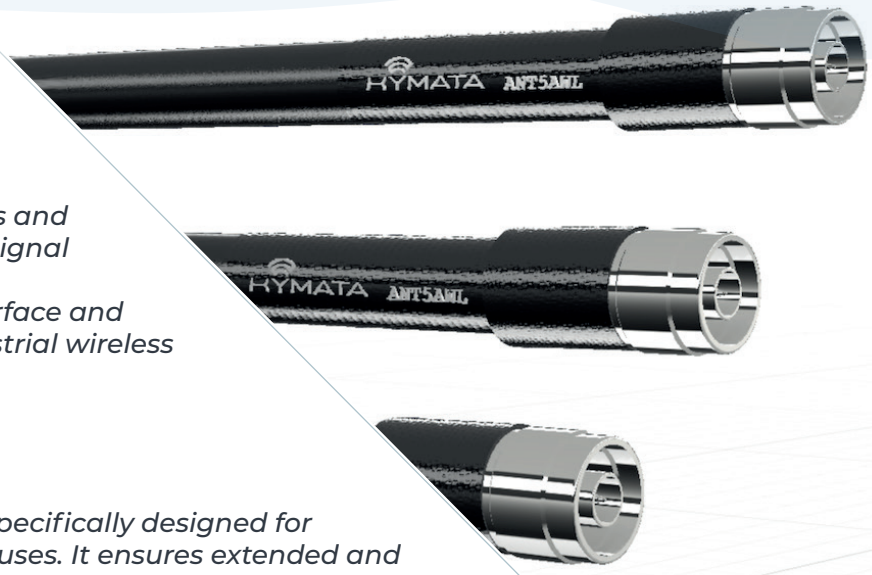
Kymata Antennas

ANT5AW

Antenna 1.5GHz~6.2GHz



Overview

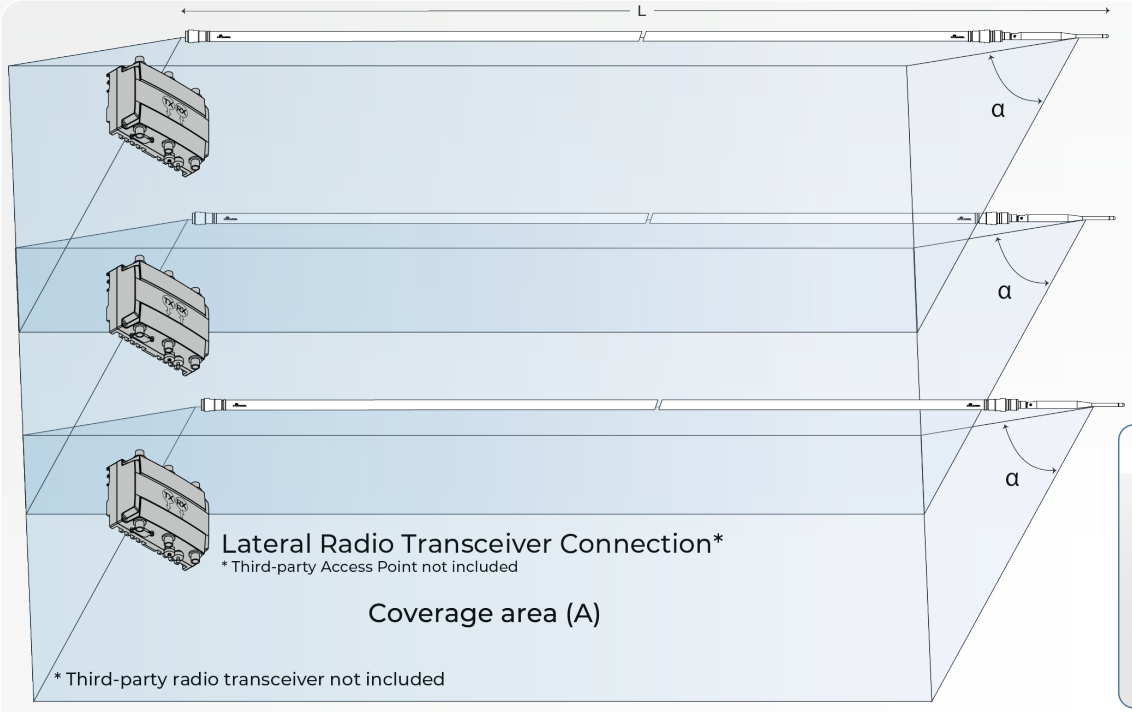
Kymata delivers a groundbreaking solution for indoor and outdoor radio coverage in extensive logistical and industrial areas. Kymata Antennas and Amplifiers effectively and economically resolve signal issues, ensuring superior performance.
With intuitive management through a web interface and SNMP, complete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

ANT5AW Series Antennas

The ANT5AW antenna is a broadband solution specifically designed for radio frequency coverage in automated warehouses. It ensures extended and consistent radio coverage performance throughout the internal volume of shelving systems, across a wide frequency range from 1.5 to 6GHz.

This antenna is ideal for applications requiring comprehensive coverage in complex warehouse environments, including Wi-Fi networks operating within the 1.5 to 6GHz frequency range. Optimized for frequencies from 1.5GHz to 6GHz, the ANT5AW delivers uniform signal distribution throughout the shelving volume.

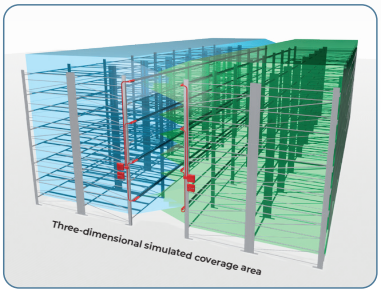
The ANT5AW integrates seamlessly with any radio system operating within the specified frequency range and features a specialized design to meet the unique demands of warehouse settings.



dect LTE 5G PRIVATE

Wi-Fi 4 Wi-Fi 5 Wi-Fi 6

CE Energy Saving*



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

L = total length of the antenna
A = nominal coverage area with average signal strength >-82dBm
a = nominal antenna aperture angle

Related Accessories

Mounting Kit: MKT1HI — MKT60I — MKT1HO — MKT60O — MKT1HX — MKT60X
Jumpers: JMPRPSMANM — JMPNMNM
Integrated Passive Devices: IPD11HS — IPD11CS
Amplifiers: AMP2 — AMP5 — AMP5D — AMP2SM — AMP5SM
Diplexer/Coupler: IPD25D — IPD3BAND

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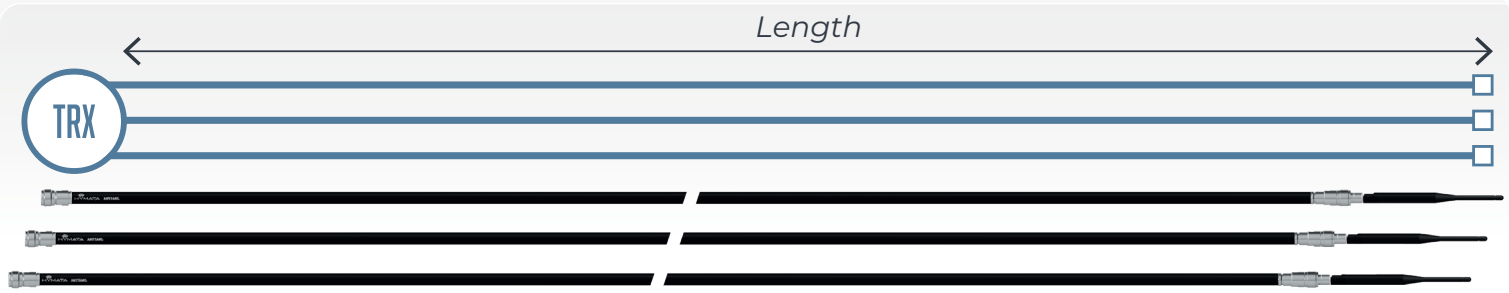
Kymata Antennas

ANT5AW

Antenna 1.5GHz~6.2GHz

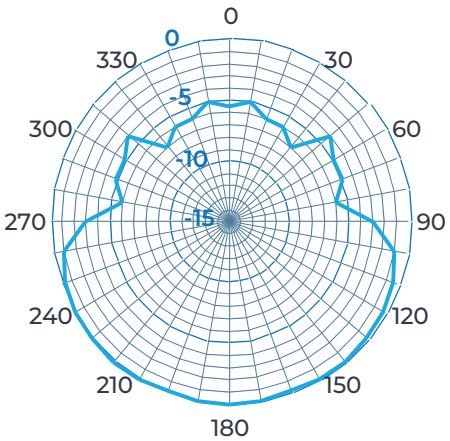


Technical specifications

Product Code	ANT5AWL40	ANT5AWL50	ANT5AWL60	ANT5AWL70
Operating Band	1.5 GHz ~ 6.2 GHz			
TRX Connector Position	Lateral			
Overall Length L	up to 40 m	up to 50 m	up to 60 m	up to 70 m
Average Gain @ 2.4 GHz	-30 ± 3 dBi	-32 ± 3 dBi	-33 ± 3 dBi	-34 ± 3 dBi
Average Gain @ 5.2 GHz	-31 ± 3 dBi	-33 ± 3 dBi	-34 ± 3 dBi	-36 ± 3 dBi
-3 dB Angle (a) 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			

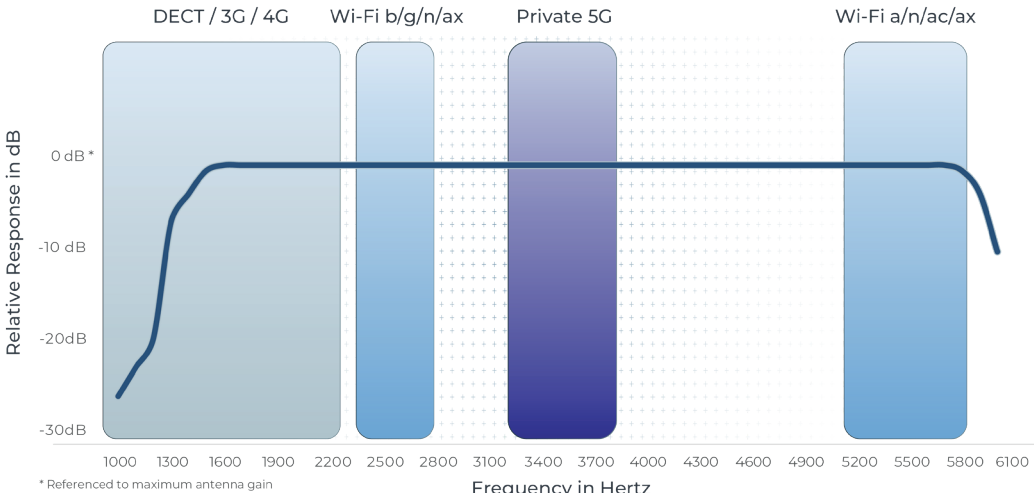
*Minimum distance to be maintained during installation between the Kymata antenna and walls or other surfaces

Radiation pattern



Trasversal plan (radial)

Frequency response



* Referenced to maximum antenna gain

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