


WideRange 55° EDGE Antenna


ETSI 52010712 / FCC 52010713

The latest antenna family from Kathrein Solutions revolutionizes the use of UHF RFID antennas for IoT applications. The WideRange 55° antenna impresses with its excellent parameters and reduced dimensions. The antenna's thickness of only 6 mm is very advantageous. This is achieved by completely avoiding the housing. However, protection against moisture and environmental influences is provided. The WideRange 55° antenna is IP54 protected and can be used outdoors. All EDGE Line antennas are fully recyclable.







High antenna gain




Various mounting options



Suitable for recycling




Ultra thin antenna, easy to integrate




IP54

WideRange Antenna HPBW

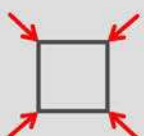
55°




Symmetrical beam



TNC (f) socket

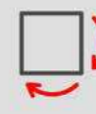



Compact installation



Temperature resistant

3D mounting kit





Pure antenna design

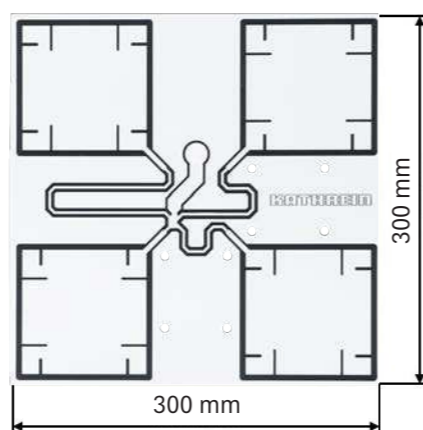
Features

- Ultra-thin RAIN RFID antenna, easy to integrate
- Best-in-class antenna gain: 10 dBiC
- TNC (f) socket
- Right handed circular polarized RHCP
- Symmetrical beam shape with 55°/55°
- Suitable for outdoor use according to IP54

Key Applications

- Logistics & Supply Chain
- Manufacturing & Automotive
- Healthcare

Dimensions [mm]



General Specifications WideRange 55° EDGE Antenna

Type		WideRange 55° EDGE Antenna ETSI Version	WideRange 55° EDGE Antenna FCC Version
Order number		52010712	52010713
RFID			
Frequency range	[MHz]	865–868	902–928
Impedance antenna port	[Ohm]	50	
Half-power beam width	[°]	55 / 55	
Gain, circular	[dBiC]	10	
Polarisation		RHCP circular	
Axial ratio	[dB]	typ. 1	
Front-to-back ratio	[dB]	15	
Max. input power (at antenna port)	[dBm]	–	+30 dBm
Max. radiated power acc. EN 302 208 acc. FCC 15.247	[dBm]	+33 e.r.p.	+36 EIRP
Max read range	[m]	> 15*	
Mechanic properties			
Connection		TNC female	
Mounting kit terminal	[mm]	50 x 58	
Weight	[kg]	0.8	
Degree of protection	[W]	IP54	
Operating temperature range	[°C]	-40 to +80	
Storage temperature range	[°C]	-40 to +85	
Dimensions (L x W x H) w/o connector with connector	[mm]	300 x 300 x 6 300 x 300 x 24	
Packing size (L x W x H)	[mm]	380 x 380 x 45	
Material		Metal Polymer Mix	

*) depends on the used transponder and the environment