






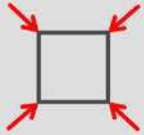





### MidRange 90° EDGE Antenna

ETSI 52010710 / FCC 52010711

The latest antenna family from Kathrein Solutions revolutionizes the use of UHF RFID antennas for IoT applications. The MidRange 90° 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 MidRange 90° EDGE antenna is IP40 protected and can be used indoors. All EDGE Line antennas are fully recyclable.



 <b>High antenna gain</b>	 <b>Various mounting options</b>	 <b>Suitable for recycling</b>	 <b>Ultra thin antenna, easy to integrate</b>
 <b>IP40</b>	<b>MidRange Antenna HPBW 90°</b>	 <b>Symmetrical beam</b>	 <b>SMA (f) socket 90°</b>
 <b>Compact installation</b>	 <b>Temperature resistant</b>	<b>3D mounting kit</b> 	 <b>Pure antenna design</b>

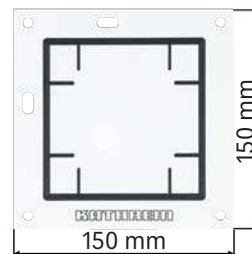
#### > Features

- Ultra-thin RAIN RFID antenna, easy to integrate
- Outstanding best-in-class antenna gain: 6.5 dBiC
- SMA (f) socket 90°
- Right handed circular polarized RHCP
- Symmetrical beam shape with 90°/90°
- Suitable for indoor use according to IP40

#### > Key Applications

- Logistics & Supply Chain
- Manufacturing & Automotive
- Healthcare

#### > Dimensions [mm]



**> General Specifications MidRange 90° EDGE Antenna**

Type		MidRange 90° EDGE Antenna ETSI Version	MidRange 90° EDGE Antenna FCC Version
<b>Order number</b>		<b>52010710</b>	<b>52010711</b>
<b>RFID</b>			
Frequency range	[MHz]	865–868	902–928
Impedance antenna port	[Ohm]	50	
Half-power beam width	[°]	90 / 90	
Gain, circular	[dBic]	6.5	
Polarisation		RHCP circular	
Axial ratio	[dB]	typ. 1.5	
Front-to-back ratio	[dB]	13	
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]	> 10*	
<b>Mechanic properties</b>			
Connection		SMA 90°	
Mounting kit terminal	[mm]	50 x 58	
Weight	[kg]	0.3	
Degree of protection	[W]	IP40	
Operating temperature range	[°C]	-40 to +80	
Storage temperature range	[°C]	-40 to +85	
Dimensions (L x W x H) Antenna w/o connector Antenna with connector	[mm]	150 x 150 x 6 150 x 150 x 18	
Packing size (L x W x H)	[mm]	150 x 150 x 25	
Material		Metal Polymer Mix	

\*) depends on the used transponder and the environment