






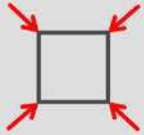





### MidRange 100° EDGE Antenna

ETSI 52010723

The latest antenna family from Kathrein Solutions revolutionizes the use of UHF RFID antennas for IoT applications. The MidRange 100° 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 100° EDGE antenna is IP40 protected and can be used indoors. All EDGE Line antennas are fully recyclable.

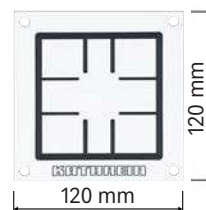


 <b>High antenna gain</b>	 <b>Various mounting options</b>	 <b>Suitable for recycling</b>	 <b>Ultra thin antenna</b>
 <b>IP40</b>	<b>MidRange Antenna HPBW 100°</b>	 <b>Symmetrical beam</b>	 <b>SMA (f) socket 90°</b>
 <b>Compact installation</b>	 <b>Temperature resistant</b>	 <b>Easy to integrate</b>	 <b>Pure antenna design</b>

#### > Features

- Ultra-thin RAIN RFID antenna, easy to integrate
- Outstanding best-in-class antenna gain: 5 dBiC
- SMA (f) socket 90°
- Right handed circular polarized RHCP
- Symmetrical beam shape with 100°/100°
- Suitable for indoor use according to IP40

#### > Dimensions [mm]



#### > Key Applications

- Logistics & Supply Chain
- Manufacturing & Automotive
- Healthcare

**> General Specifications MidRange 100° EDGE Antenna**

Type		MidRange 100° EDGE Antenna ETSI Version
<b>Order number</b>		<b>52010723</b>
<b>RFID</b>		
Frequency range	[MHz]	865–868
Impedance antenna port	[Ohm]	50
Half-power beam width	[°]	100 / 100
Gain, circular	[dBic]	5
Polarisation		RHCP circular
Axial ratio	[dB]	typ. 2
Front-to-back ratio	[dB]	7
Max. input power (at antenna port)	[dBm]	–
Max. radiated power acc. EN 302 208	[dBm]	+30 e.r.p.
Max read range	[m]	> 5*
<b>Mechanic properties</b>		
Connection		SMA 90°
Weight	[kg]	0.2
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	[mm]	120 x 120 x 6
Antenna with connector		120 x 120 x 18
Packing size (L x W x H)	[mm]	125 x 125 x 25
Material		Metal Polymer Mix

\*) depends on the used transponder and the environment