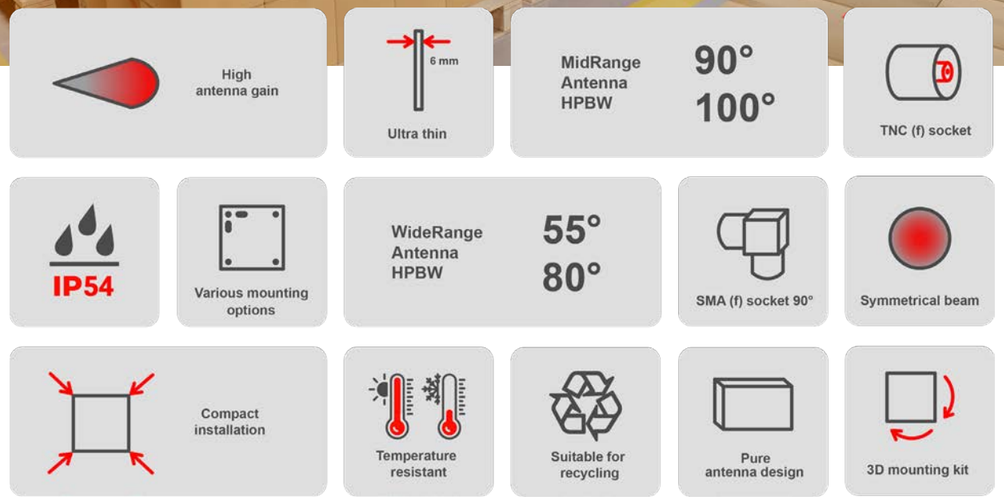
MidRange 100° EDGE Antenna

ETSI 52010723

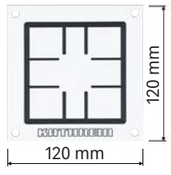
The latest antenna family from Kathrein Solutions revolutionizes the use of UHF RFID antennas for IoT applications. The MidRange 100° antenna impresses with its excellent parameters and reduced dimensions. The antenna´s thickness of only 6 mm is very advantageous. This is achieved by completely avoiding the housing. However, protection against moisture and environmental influences is provided. The MidRange 100° antenna is IP40 protected and can be used outdoors. All EDGE Line antennas are fully recycable.



Features

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

Dimensions [mm]



Key Applications

- Logistics & Supply Chain
- Manufacturing & Automotive
- Healthcare

KATHREIN Solutions GmbH, Kronstaudener Weg 1, 83071 Stephanskirchen, Germany
Phone +49 8036 90831-20 | Fax +49 8036 90831-69 | www.kathrein-solutions.com | info@kathrein-solutions.com

General Specifications WideRange Antenna 100° EDGE

Type		MidRange Antenna 100° EDGE ETSI Version
Order number		**52010723**
RFID		
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*
Mechanic properties		
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 Antenna with connector	[mm]	 120 x 120 x 6 120 x 120 x 18
Packing size (L x W x H)	[mm]	200 x 200 x 45
Material		Metal Polymer Mix

*) depends on the used transponder and the environment

936B355/-/0125 | Subject to changes.

KATHREIN Solutions GmbH, Kronstaudener Weg 1, 83071 Stephanskirchen, Germany
Phone +49 8036 90831-20 | Fax +49 8036 90831-69 | www.kathrein-solutions.com | info@kathrein-solutions.com