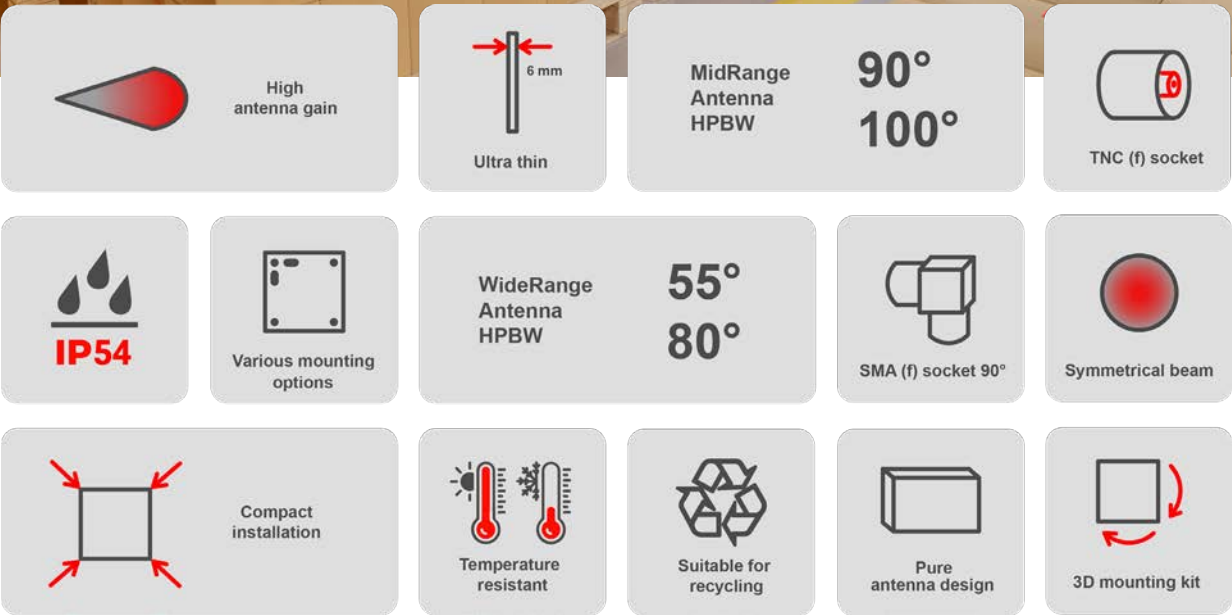
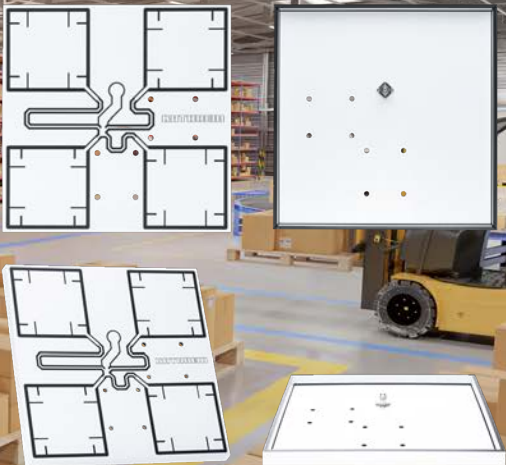


WideRange 55° EDGE Antenna

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.



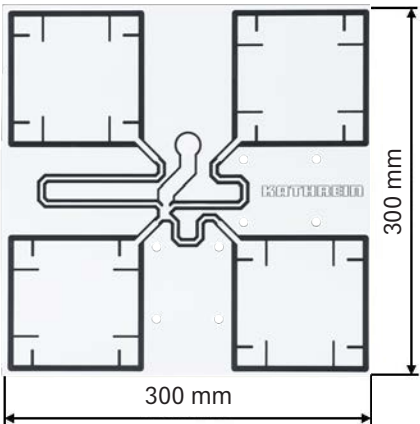
Features

- Ultra-thin RAIN RFID antenna, easy to integrate
- Outstanding best-in-class antenna gain: 10 dBiC
- TNC (f) connector
- 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 Antenna 55° EDGE

Type		WideRange Antenna 55° EDGE ETSI Version	WideRange Antenna 55° EDGE 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