Low Range RFID UHF Antenna | Page 1 of 2 **U-LORA** Antenna Unit

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Features >

- Minimal dimensions
- Extremely high selectivity
- Extremely high resistance to interference (multi-reader applications)
- Suitable for use in industrial environments
- Optimized for near field applications
- High IP67 degree of protection
- Suitable for outdoor use

General specifications





Order No.		52010092
Туре		U-LORA-ETSI-FCC
Frequency range	[MHz]	865-928
©KRAI		-
Polarization		-
Antenna gain	[dBiC	- 30
EIFF *	[dB]	15
VSWR		typ. 1.2:1
Impedance antennaport	[Ohm]	50
Max. input power	[dBm]	+30 (at antenna port)
Range of near field tags **	[cm]	3
Selectivity of near field tags **	[cm]	3
Range of far field tags **	[cm]	8
Selectivity of far field tags **	[cm]	10
Connection		TNC female
Weight	[kg]	0.11
Degree of protection		IP67
Operating temperature range	[°C]	-20 to +55
Storage temperature range	[°C]	-40 to +85
Dimensions (L x W x H)	[mm]	79.5 x 90 x 31
Packing size (L x W x H)	[mm]	approx. 165 x 250 x 50
Material		
Antenna cover		tough, weather-resistant polymer blend, colour: RAL7045

* The Effective Isotropic Field Factor (EIFF) shows the field isolation from far field to near field standardised to an isotropic radiator. The values were determined with 3 cm spacing.

** dependant upon transmission power and tag type

> Remarks

Mounting options

Four through-holes Ø 4.2 mm for M4 screws

Accessories optional

All accessories can be found at: https://http://www.kathrein-solutions.com/products/hardware/accessories

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Description

The Ultra Low Range Antenna (ULORA) and Low Range Antenna (LORA) feature a high field concentration in the near field with simultaneously extremely minimised antenna gain in the far field. With these properties the antennas achieve outstanding reading and writing results with ranges up to 10 cm with a typical selectivity of 5 cm. The special design of these antennas guarantees interference-free operation in multi-reader environments.

The ULORA was especially developed to read dipolar tags (far field tags) at very limited distances. In addition this antenna can address looped tags (near field tags) up to 3 cm. The LORA version was developed in order to increase the range for near field tags, with which ranges up to 7 cm can be achieved. The range of applications of the antennas according to tag type is displayed in the tag association table.

Key Application

Pharmaceutical industry (e.g. individual tag capture on liquid-filled vessels and blister packs)

Access controls

Automation industry