

KATHREIN

RAIN RFID Mid Range Antenna, 865-868MHz, ETSI, 2.5 dBic, circular

The mid-range antenna (MIRA) was developed for applications in range between the near and far field. The focus of the compact design was for integration in space-critical applications. Reading distances of up to 5 m are still possible with dimensions of 143.8 x 156 mm. In this case, however, the reading range is very wide.

In most cases the MIRA is used for reading distances up to 2 m, for which it features sufficient selectivity. Therefore, this antenna design is especially suitable for applications in the so-called transition area with different tag types.



Key features of the Kathrein MiRa-100 RAIN RFID Mid Range Antenna

- Compact design and small dimensions
- Typical read range*: up to 2 m (* depending on tag properties, environment and requirements)
- Various transponder types possible to use
- Integration possible in applications where space is limited
- Use in transition range between near field and far field application
- Suitable for use in industrial environments, suitable for bulk and single tag applications
- High IP67 degree of protection, suitable for outdoor use
- Applications: corridor conveyor vehicles, materials handling, bulk and single tag applications, access systems (e.g. ski lifts, control systems for tickets)

Ruggedness of the Kathrein antennas:

YOUTUBE='sCId0-vHrUM'



Technical Description

Functionality & Operation	
Polarization	circular
Connectors	TNC Female
Reading/writing distance	2m
Frequency	UHF: 865 - 868 MHz (EU)
Electrical	
Front to back ratio	10dB
Gain	2.5dBi
Axial ratio	1.5dB
Return loss (VSWR)	1.3:1
Nominal impedance	50Ohm
Beam width	100°
Mechanical	
Dimensions	Width: 143.8mm, Height: 156mm Length: 36mm
Weight	320g
Body housing	weather-resistant polymer blend
Color	light grey
Environment	
Operating temperature	-20 to 55°C
Storage temperature	-40 to 85°C
Ingress protection	IP67
Others	
Certifications	CE, REACH, RoHS

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