

KATHREIN

WRA 7070 RAIN RFID Wide Range Antenna, ©KRAI, 865-868MHz, 6.5dBic, LHCP/RHCP

For classic far field RAIN RFID applications with large reading distances, the WRA 7070 (Wide Range Antenna) is the optimal choice. The model with the ©KRAI interface enables more advanced antenna control and connection functions.

The Kathrein WRA 7070 antenna is characterised by a very low axial ratio for circular polarization, whereby the dependence of reading results upon the position or alignment of tags is significantly reduced. For this reason the WRA 7070 is also the ideal solution for portal applications in addition to many other application possibilities.



Key features of the of the Kathrein WRA 7070 Wide Range Antenna

- Compact design
- Low axial ration for optimum performance
- Read range*: up to 12 m (* depending on tag properties, environment and requirements)
- Advanced ©KRAI interface
- Optimised for portal applications
- Suitable for use in industrial environments
- High degree of protection, IP67 suitable for outdoor use

Ruggedness of the Kathrein antennas
YOUTUBE='sCId0-vHrUM'

KRAI Interface
YOUTUBE='JXDrHz8oFH'



Technical Description

Functionality & Operation

Reading/writing distance	12m
Connectors	TNC Female
Polarization	LHCP, RHCP
Communication interface	KRAI ©
Frequency	UHF: 865 - 868 MHz (EU)

Electrical

Axial ratio	2dB
Front to back ratio	18dB
Beam width	65°
Return loss (VSWR)	1.4:1
Gain	6.5dBi
Nominal impedance	50Ohm

Mechanical

Dimensions	Width: 300mm, Height: 300mm Length: 9mm
Weight	1.7kg
Color	light grey
Body housing	aluminium, metal, weather-resistant polymer blend

Environment

Operating temperature	-40 to 70°C
Storage temperature	-40 to 85°C
Ingress protection	IP67

Others

Certifications	CE, REACH, RoHS
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CODEWARE, s.r.o.
Jaromírova 484/37
120 00 Praha 2 - Nusle
IČ: 61061395, DIČ: CZ61061395

+420 222 562 444
codeware@codeware.cz
<https://www.codeware.cz/>

