

## > Features

- New compact design for ruggedized environmental applications, but also for shop floor use cases
- Mounting kit for pole mount or gantry mount included
- Prepared for 3D mount kit (100 x 100mm)
- Excellent axial ratio for homogeneous reception of transponders in any position
- Read range\*: up to 20 m (\* depending on tag properties, environment and requirements)
- Ideal solution for portal applications and vehicle identification
- Different far field half-power beam widths in azimuth and elevation plane
- Suitable for bulk and single tag applications
- High IP67 degree of protection, suitable for outdoor use



## > General Specifications

Order No.		52010583	52010584
Type		WRA 3070 Antenna Unit ETSI	WRA 3070 Antenna Unit FCC
Frequency range	[MHz]	865–868 (865–867 for India)	902–928
©KRAI			–
Polarisation			circular
Antenna gain	[dBi]	typ. 12	typ. 11.5
VSWR			typ. 1.2:1
Front-to-back ratio	[dB]		> 20
Impedance, antenna port	[Ohm]		50
Max. radiated power	[dBm]	+33 e.r.p. (ETSI EN 302 208)	+36 EIRP (FCC15.247)
Far-field half-power beam width (in the recommended installation position as shown in the picture)	[°]		30 horizontal 65 vertical
Connection			TNC * (female)
Weight	[kg]		4.5
Degree of protection			IP67
Operating temperature range	[°C]		–40 to +70
Storage temperature range	[°C]		–40 to +85
Dimensions (L x W x H)	[mm]		610 x 320 x 77
Package size (L x W x H)	[mm]		642 x 380 x 150
Material			
	Antenna cover	tough, weather-resistant polymer blend, colour: RAL7035	
	Chassis	aluminium, powder coat	
	Seals	thermoplastic elastomer	

\*) For vertical pole mounting with the included mousing brackets, we recommend using the right-angle TNC-TNC adapter 52010598.

## > Key Applications

- Automated vehicle identification:
  - Electronic toll collect
  - Tolling plaza
  - Lane selective free-flow traffic
- Railway identification:
  - Supply Device Management
  - Maintenance

## > Accessories (Optional)

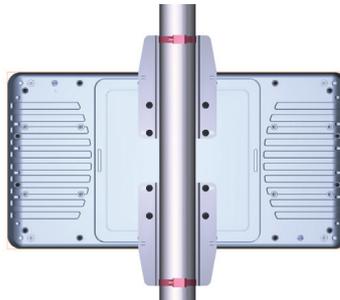
For more information about accessories, go to <https://www.kathrein-solutions.com/products/rfid/rfid-accessories>.

## > Mounting (with the brackets supplied)

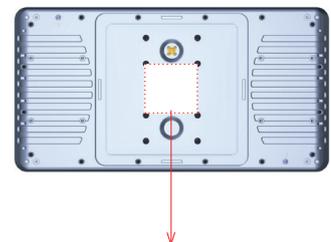
Horizontal Mounting on Gantry:



Vertical Mounting on Pole:



Screw holes for 3D mount kit:



- Pipe and hose clamps not included in delivery.
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- For vertical pole mounting with the included mounting brackets, we recommend using the right-angle TNC-TNC adapter 52010598.
- Install the antenna on the 3D mounting kit 52010351, using four M6 threaded bolts at intervals of 100 x 100 mm.

## > Dimensions [mm]

