

For classic far-field applications with large reading distances, the wide range antennas (WRA) are the optimal choice. They are characterised by a very low axial ratio for circular polarisation, whereby the dependence of reading results upon the position or alignment of tags is significantly reduced. For this reason, they are also the ideal solution for portal applications in addition to many other application possibilities.



> Features

Type	ETSI Version	ETSI Version	FCC Version	FCC Version
	WRA 7070 Antenna Unit	WRA 7070 ©KRAI Antenna Unit	WRA 7070 Antenna Unit	WRA 7070 ©KRAI Antenna Unit
Order number	52010333	52010335	52010334	52010336
©KRAI		✓		✓
Polarisation, circular	✓	✓	✓	✓
Polarisation, linear		✓		✓
LED visualisation		✓		✓

> Key Applications

- Gate applications for goods registration
- Logistics
- Vehicle registration
- Bulk and single-tag applications

> Accessories, optional

- low-loss 240 antenna cable TNC/TNCR, 3 m (order no. 52010174)
- low-loss 240 antenna cable TNC/TNCR, 6 m (order no. 52010175)
- low-loss 240 antenna cable TNC/TNCR, 10 m (order no. 52010176)
- low-loss 240 antenna cable TNC/TNCR, 15 m (order no. 52010177)
- wall mount kit for RRU 4000, ARU 3000, WRA 6060/7070, SSMH-BP-ALU (order no. 52010261)
- wall/pole mount kit for RRU 4000, ARU 3000, WRA 6060/7070 (order no. 52010351)
- For more information about accessories, go to <https://www.kathrein-solutions.com/products/hardware/accessories>.

> General Specifications

Type		ETSI Version	FCC Version	ETSI Version	FCC Version
		WRA 7070 Antenna Unit	©KRAI Antenna Unit	WRA 7070 Antenna Unit	©KRAI Antenna Unit
Order number		52010333	52010334	52010335	52010336
Frequency range	[MHz]	865–868	902–928	865–868	902–928
Polarisation, circular		RHCP**		LHCP/RHCP*	
Antenna gain	[dBiC]	typ. 8.5		typ. 6.5	
Axial ratio	[dBi]	typ. 1		typ. 2	
Polarisation, linear		–	–	horizontal/vertical	
Antenna gain	[dBi]	–	–	typ. 7.0	
Impedance	[Ohm]	50			
VSWR		typ. 1.2:1		typ. 1.4:1	typ. 1.8:1
Front-to-back ratio	[W]	> 18			
Max. input power	[dBm]		+30		+30
Max. radiated power	[dBm]	+33 e.r.p.	+36 EIRP	+33 e.r.p	+36 EIRP
Far field half-power beam width	[°]	65			
Connection		TNC, female			
Weight	[kg]	1.7			
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]	300 x 300 x 49			
Packing size (L x W x H)	[mm]	approx. 350 x 350 x 80			
Material					
Antenna cover		touch, weather-resistant polymer blend, colour: RAL7045			
Chassis		aluminium			
Patch plate		brass tin-plated			
Seals		thermoplastic elastomer			

*left-/right-hand circular polarisation
 **right-hand circular polarisation

> **Optional Specifications**

