

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 polarization, 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.



WRA 7070 Antenna Overview

Features

	ETSI Version	ETSI Version	FCC Version	FCC Version
Type	WRA 7070 Antenna Unit	WRA 7070 ©KRAI Antenna Unit	WRA 7070 Antenna Unit	WRA 7070 ©KRAI Antenna Unit
Order No.	52010333	520101335	520101334	520101336
©KRAI		✓		✓
Polarization circular	✓	✓	✓	✓
Polarization linear		✓		✓
LED visualization		✓		✓

Key Application

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

Remarks

Accessories optional

- Low Loss 240 Antenna cable TNC/TNCR 3m (Order No. 52010174)
- Low Loss 240 Antenna cable TNC/TNCR 6m (Order No. 52010175)
- Low Loss 240 Antenna cable TNC/TNCR 10m (Order No. 52010176)
- Low Loss 240 Antenna cable TNC/TNCR 15m (Order No. 52010177)
- Low Loss 240 Antenna cable TNC/TNCR 15m (Order No. 52010177)
- Wall Mount Kit WIRA70, RRU, ARU Indoor (Order No. 52010261)
- Wall/Pole Mount Kit WRA 70, RRU, ARU Outdoor (Order No. 52010351)

> General Specifications

		ETSI Version	FCC Version	ETSI Version	FCC Version
Type		WRA 7070 Antenna Unit	WRA 7070 Antenna Unit	WRA 7070 ©KRAI Antenna Unit	WRA 7070 ©KRAI Antenna Unit
Order No.		52010333	52010334	52010335	52010336
Frequency range	[MHz]	865 - 868	902 - 928	865 - 868	902 - 928
Polarization circular		RHCP **		LHCP / RHCP *	
Antenna gain	[dBiC]	typ. 8.5		typ. 6.5	
Axial ratio	[dB]	typ. 1		typ. 2	
Polarization 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		> 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		IP65			
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		tough, weather-resistant polymer blend, colour: RAL7045			
Chassis		aluminium			
Patch plate		brass tin-plated			
Seals		thermoplastic elastomer			

* left-/right-hand circular polarization
 ** right-hand circular polarization

▣ **Dimensions [mm]**

