

NEAR-FIELD | MID-RANGE | LONG-RANGE















	NearField Antenna UHF	UHF Mid-Range Antenna UHF			Long-Range Antenna UHF				
	NF A1030	MR A5020 CP	MR A5020 LX	MR A1313	LR A5010	LR A3314	LR A2222		
Mechanical Enviromental Pr	roperties								
Dimension in mm	300 × 300 × 7.1	150 × 150 × 14	150 × 150 × 14	130 × 130 × 18	250 × 250 × 14	335 x 134 x 17,5	218 × 218 × 23.8		
Housing-Material	Fire Retardant ABS	UV-Resistant / Fire Retar- dant ABS	UV-Resistant / Fire Retar- dant ABS	UV-Resistant White ABS	UV-Resistant / Fire Retar- dant ABS	F4BTM high frequency sheet, aluminum, ABS	UV-Resistant White ABS		
Interface type		SMA female side connector							
IP Protection Class	IP53	IP68	IP69K	IP65	IP67	IP67	IP67		
Mounting	Integrated mounting guides on back	Flush or VESA mount using four mounting holes	Flush or VESA mount using four mounting holes	L-shaped pole mounting bracket	Flush or VESA mount	Installation through han- ging holes on both sides	Two mounting holes on each side (self-tapping screw mounting)		
Weigth	550g	250g	250g	210g	650 g	450 g	400 g		
Work Temp	0 ° to +50 °C	-30 ° to +65 °C	-90 ° to +65 °C	-20 ° to +65 °C	-20° to +65 °C	-40° to +85°C	-40° to +85°C		
Electrical Specifications	·	•	•	•			•		
Work frequency		864 – 869 MHz (EU) 902 – 928 MHz (US)							
Operating Distance	-	Up to 4 m*	Up to 4 m*	Up to 4 m*	Up to 8 m*	Up to 8 m*	Up to 8 m*		
Band width	-	105° in both planes	100° in XZ and 105° in YZ plane	Horizontal: 85° ±5 / Verti- cal: 108° ±10	68° in both planes	Horizontal: 40° / Vertical: 86°	70° in both planes		
Antenna gain	-	5 dBiC	5 dBiC	5.5 dBiC	8.5 dBic	≥8 dBic	≥8 dBic		
VSWR	1.8 typical	1.4 typical	2.5 typical	1.3 typical	1.3 typical	≤1.5 typical	≤1.5 typical		
Polarization mode	No Polarization	Right Hand Circular Polarization	Vertically Polarized (along the Y axis)	Right Hand Circular Polarization	Right Hand Circular Polarization	Right Hand Circular Polarization	Right Hand Circular Polarization		
Axial ratio	Not Applicable	2 dB typical	Not Applicable	2.5 dB typical	1 dB typical	≤3 dB typical	≤3 dB typical		
Impedance	50Ω	50Ω	0Ω	50Ω	50Ω	50Ω	50Ω		
Accessories		Connector Protector Plate R-IN-UHF-A5020-CBP	Connector Protector Plate R-IN-UHF-A5020-CBP	-	Mounting Plate R-IN-AC-9935U	-	-		
Order Codes	R-IN-UHF-A1030 R-IN-UHF-A1030-FCC	R-IN-UHF-A5020 R-IN-UHF-A5020-FCC	R-IN-UHF-A5020LX R-IN-UHF-A5020LX-FCC	R-IN-UHF-A1313 R-IN-UHF-A1313-FCC	R-IN-UHF-A5010 R-IN-UHF-A5010-FCC	R-IN-UHF-A3314 R-IN-UHF-A3314-FCC	R-IN-UHF-A2222 R-IN-UHF-A2222-FCC		

^{*} Depending on RFID Reader, Tag & Environmental Conditions



SPECIAL APPLICATIONS









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	Cylindrical Antenna UHF	Portal Applicati	on Antenna UHF	Shelf Antenna UHF				
	Cylindrical M30	DOOR A8065	PORTAL A5060	SHELF A7030C				
Mechanical Enviromental F	Properties							
Dimension in mm	M30 x 1,5 x 90,15	700 × 90 × 10.5	600 × 300 × 8.6	300 x 300 x 8,5				
Housing-Material	Nickelled Brass + PC	Fire Retardant ABS						
Interface type	TNC female	SMA female side connector						
IP Protection Class	IP65	IP54						
Mounting	Screw Mount (M30 Stan- dard)	Mounting guides / adhesi- ve foam strips	Flush or VESA mount	Integrated mounting guides				
Weigth	200g	600g	1500g	850 g				
Work Temp		− 20 °C to +55 °C						
Electrical Specifications								
Work frequency		864 – 869 MHz (EU) 902 – 928 MHz (US)						
Operating Distance	Up to 20 cm*	Up to 2 m*	Up to 10 m*	Up to 2 m*				
Band width	Horizontal: 100° Vertical: 170°	see data sheet	Horizontal: 25° Vertical: 60°	65° in both planes				
Antenna gain	-10.5 dBic max	see data sheet	10.5 dBiC	6 dBiC				
VSWR	2.0 : 1 max	see data sheet	1.4 typical					
Polarization mode	Circular Polarization	Vertically / Horizontally Linear	Right Hand Circular Polarization					
Axial ratio	3 dB max	see data sheet	2 dB typical					
Impedance	50Ω	50Ω	50Ω	50Ω				
Accessories	ories -		Mounting Plate R-IN-UHF-A5060-MP	-				
Order Codes	R-IN-UHF-9131U R-IN-UHF-9133U (FCC)	R-IN-UHF-A8065 R-IN-UHF-A8065-FCC	R-IN-UHF-A5060 R-IN-UHF-A5060-FCC	R-IN-UHF-A7030C R-IN-UHF-A7030C-FCC				

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