

ANTENNAS

TAGSYS RFID antennas operate at 13.56MHz and come in various shapes and sizes to allow a variety of reading ranges when used with TAGSYS couplers. Some antennas are packaged in a casing strong enough to withstand harsh industrial environments. Others are sold in their bare format to enable easy integration into existing systems.

Expert in antenna design, TAGSYS can also develop custom antennas for specific application needs. Antenna tuning is a difficult task, especially when performed in challenging surroundings. The Antenna Tuning Device from TAGSYS enables to easily and accurately adjust any antenna (50 ohms/0°) in the field.



Technical Specifications:

Name	A-VSA	A-SA	A-SF	A-MA	A-MP	Aero™ LA	Aero LF
Antenna description	Rectangular Very small PCB	Round Small PCB	Round Small PCB+ferrite	Round Medium	Round Medium Packaged	Large Square Packaged Loop	Circular, One-inch antenna PCB
Frequency	13.56 MHz						
Coupler RF Power	Any TAGSYS coupler with a RF power of 0.6 Watt max.					0.6 Watt min.	Any TAGSYS coupler with a RF power of 0.6 Watt max
Dimensions of the coil antenna (W x L)							
mm	40 x 50	Ø 40	Ø 40	Ø 135	Ø 135	300 x 300	Ø 25.4
inches	1.6 x 2	1.6	1.6	5.3	5.3	12 x 12	1
Dimensions of the packaged antenna (W x L x H)							
mm	40 x 50 x 6	50 x 70 x 10	50 x 70 x 20	180 x 160 x 20	190 x 195 x 30	310 x 440 x 25	27.5 x 50 x 6
inches	1.6 x 2 x 2.3	2 x 2.8 x 0.4	2 x 2.8 x 0.8	7 x 6.3 x 0.8	7.5 x 7.7 x 1.2	12 x 17 x 1	1 x 2 x 0.2
Weight	<50g	50g	280g	185g	2.4 kg	600g	<50g
Presentation	PCB with components and connector		PCB with ferrite and metal base	PCB with components and connector	Plastic housing		PCB with components and connector
Impedance	50 Ohms +/- 10%						
Connectors	Coax cable with 2 pins connectors	Coax cable (l=500 mm, d=2.5 mm) with BNC female and SMA male		SMA male on antenna cable		Coax cable (l=500 mm, d=5 mm) with BNC male/female adapter	Coax cable with 2 pins connectors
Durability	Operating : -20°/+70°C (- 4/ + 158°F) – Storage : - 40°/+85°C (- 40/+185°F)						
Conformity	CE						

ANTENNAS

Name	Aero LB	Aero LC
Antenna description	Medium Square Packaged Loop	Large Rectangular Packaged Loop
Frequency	13.56 MHz	
Coupler RF power	2 Watt max	7 Watt max
Dimensions of the coil antenna (W x L)	250 x 250 mm (10 x 10 inches)	400 x 500 mm (15.7 x 19.7 inches)
Dimensions of the packaged antenna (W x L x H)	275 x 315 x 25 mm (11 x 12.4 x 1 inches)	450 x 625 x 30 mm (17.8 x 24 x 1.2 inches)
Weight	430 g	1.9 kg
Presentation	Plastic housing with PCB antenna	
Impedance	50 Ohm +/- 10%	
Connectors	SMA BNC	
Durability	Operating : -20°/+70°C (- 4°/+158° F) – Storage : -40°/+85°C (- 40°/+185°F)	
Conformity	CE	

Tagsys and Aero are registered trademarks of TTID