

MOTOROLA RFID ANTENNA FAMILY



CHOOSE THE RIGHT ANTENNA FOR YOUR APPLICATION

Motorola's complete family of RFID antennas meets the needs of virtually any RFID application. Choose the antenna that is designed for your environment — carpeted, industrial or outdoors, delivers the right level of performance, meets mounting requirements and fits in your budget.

	GENERAL PURPOSE			SLIM LINE		COMPACT	
ANTENNA	AN200	AN440	AN480	AN610	AN620	AN710	AN720
ENVIRONMENT							
Business-class		•	•	•	•	•	•
Industrial-class – Indoor	•	•	•	•	•		•
Industrial-class – Outdoor	•	•	•				•
VALUE SOLUTION			•			•	
COMPACT				SLIM	SLIM	•	•
HIGH PERFORMANCE/HIGH GAIN (DB)	•	•	•				
POLARIZATION	R & L Circular	R & L Circular/Dual	R & L Circular	L Circular	L Circular	L Circular	L Circular

NOTES:

The antenna frequency specification and label is a characteristic trait of the antenna's peak frequency response. The RFID reader, when professionally installed and selected for a country of operation, dictates the actual frequency of transmission/reception to ensure regulatory compliance for operation in a designated country. The actual frequency specification of the antenna is not material to regulatory compliance.

The AN200 will perform reasonably well in EU frequency in most applications.

COMPACT

AN700 SERIES: COMPACT ANTENNAS FOR CUSTOMER FACING ENVIRONMENTS

The AN700 Series antennas offer all the features required for carpeted and customer-facing environments. A perfect complement to Motorola's FX7400 RFID Reader, the AN700 Series antennas are extremely compact, offering the aesthetics required for the most discreet installation in the most space constrained areas — for example, under the point of sale (POS) counter. The integrated mounting bracket enables easy installation in minutes. The AN710 is designed for inside the four walls. The rugged AN720 is designed to withstand exposure to rain, snow and extreme temperatures — ideal for the receiving dock doors or outdoor shopping areas.



FEATURES	<ul style="list-style-type: none"> Thin profile Low gain (~3dB) antenna for short range applications to create targeted zone 	FEATURES	<ul style="list-style-type: none"> Industrial class, IP 67 rated Wide beam-width of 100 degree for wider coverage Ideal for short range applications to create targeted zones
APPLICATIONS	Suitable for use in Indoor environments: in doorways, on shelves, on end-cap displays, on conveyors, or POS etc.	APPLICATIONS	<ul style="list-style-type: none"> Suitable for use in Indoor and outdoor environments Indoors: In doorways, shelves, end-cap displays Outdoors: Doorways, small conveyors

SPECIFICATIONS

	AN710	AN720
PHYSICAL		
Dimensions without mounting screws:	5.75 in. L x 5.75 in. W x 0.69 in. D 146.05 mm L x 146.05 mm W x 17.53 mm D	5.2 in. L x 5.2 in. W x 0.7 in. D 132.8 mm L x 132.8 mm W x 18.1 mm D
Dimensions with mounting screws:	N/A	
Connector	Type 'N' female	
Connector Position	Pig-tail	Rear
Mounting bracket	includes articulating mount	
Weight	1.1 lbs/0.5 kg	0.8 lbs/0.37 kg
Casing	White ABS plastic	Aluminium with white plastic cover
OPERATIONAL		
Freq. Range	900-928 MHz (US) & 867-870 MHz (EU)	900-928 MHz (US) & 865-868 MHz (EU)
Gain	3.0 dBil	US/Canada: 3.0 dBil; Europe: 3.5 dBil
VSWR (Return Loss)	2 : 1	1.5 : 1
Front to Back Ratio	> 10dB	8db
Polarization	LHCP	
3db Beam Width	80°	100°
Max Power	10 watts	
Axial Ratio	< 3 db	2 dB
ENVIRONMENTAL		
Oper. Temps	-22° F to +158° F, -30° C to +70° C	-13° F to +158° F, -25° C to +70° C
Environmental Sealing	IP 65 Vented	IP67
Storage Temperature	-40° F to +158° F, -40° C to +70° C	-40° F to +158° F, -40° C to +70° C
Vibration	EN 61373, IEEE 1478, Mil-810G	MIL-STD-810
Humidity	Not Spec'd	IEC-68-2-30
COMPLIANCE		
TAA Compliant	YES	