



Zebra UHF RFID Antennas

Versatile, high-performance antennas
for a wide variety of applications





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Zebra's family of Radio Frequency Identification (RFID) Antennas offers the versatility and performance required to meet diverse environmental and application needs—including customer-facing areas, warehouses and outdoor environments. When used in conjunction with Zebra's Fixed RFID Readers, communication with UHF RFID tags is accurate, fast and efficient. As vital components in reader-tag communications, our portfolio of high-performance antennas can meet the needs of any RFID solution.

Whether your application requires an antenna that blends into the environment, is IP67 sealed for rugged and extreme weather environments, or slim to fit into small spaces, we have the right antenna to complete your solution.

One pain point when choosing an antenna for your RFID solution is knowing which antenna can be used with a fixed RFID reader in order to get maximum performance while not to exceeding your local regulations. Zebra's UHF RFID antennas have been specifically tested with our fixed reader portfolio to ensure that the highest performance is possible while still maintaining compliance with regulatory standards.

Service Completes the Solution

To help you seamlessly and successfully integrate your RFID antennas into your environment, Zebra offers a complete suite of services that span the entire solution lifecycle—from initial planning and assessment through ongoing training and support.

For more information about Zebra RFID antennas for fixed readers and how our enterprise mobility solutions can give your organization a competitive advantage, please visit us on the web at zebra.com/antennas or access our global directory at zebra.com/contact.



Zebra AN520

Ultra-Rugged, Low-Profile Antenna

IP68 rated for indoor and outdoor applications

The AN520 ultra-rugged, low-profile antenna, with an IP68 rating, is suitable for use in a variety of indoor and outdoor environments that require a small-form-factor, high-performance antenna. The outer housing is designed to be sleek and discreet enough to be integrated into any business, but rugged enough for outdoor industrial environments. The versatile flush mount blends into any location.

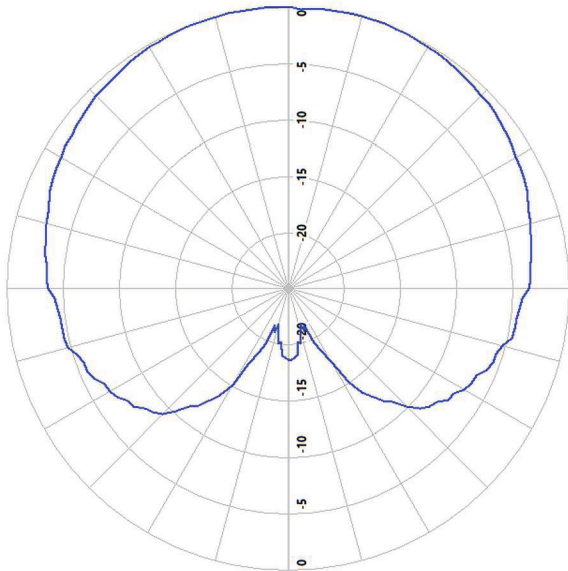


AN520 Specifications

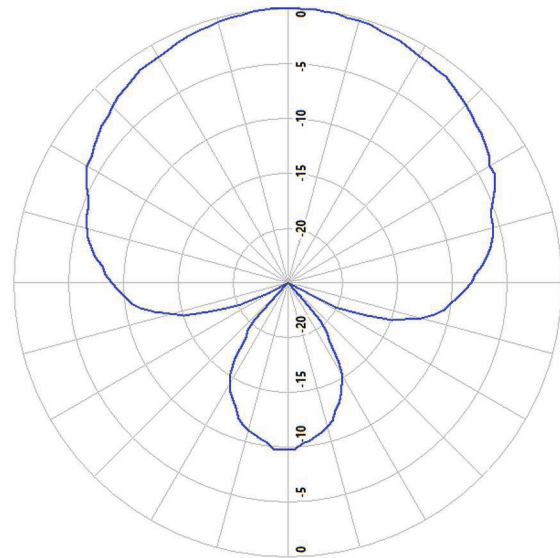
PHYSICAL CHARACTERISTICS	
Polarization	RHCP (Right Hand Circular Polarized)
Dimensions	150 mm x 150 mm x 14 mm/ 5.9 in. x 5.9 in. x 0.55 in.
Connector	SMA Female
Connector Location	Side connector
Mounting Options	Flush mount
Weight	0.25 kg/0.55 lbs
Casing/Materials	UV-Resistant ABS
Frequency Ranges	EU: 865–868 MHz US: 902–928 MHz
Gain	5.5 dBIC typical

VSWR (Return Loss)	1.4 typical
Front to Back Ratio	-10 dB
3 dB Beam Width	115° in both planes
Maximum Power	3 Watts
Axial Ratio	2 dB typical
Operating Temperature	-40° to +65°C/-40° to +149°F
Storage Temperature	-40° to +65°C/-40° to +149°F
IP Sealing	IP68
Vibration	IEC60068-2-64
Humidity	72 Hours @ 85°C relative humidity

- Vertical Markets**
- Retail
 - Warehouse Management
 - Manufacturing
 - Cold-chain
 - Aviation
 - Enterprise
- Applications**
- Point of sale
 - Under the counter/ within shelving
 - In server racks
 - Inside medical cabinets
 - Luggage tracking
 - Access control
 - Manufacturing line
 - Receiving dock doors



Horizontal (ETSI and FCC)



Vertical (ETSI and FCC)

