PRODUCT SPEC SHEET
ZEBRA AN440 RFID ANTENNA

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HIGH PERFORMANCE FOR HIGH THROUGHPUT ENVIRONMENTS

LARGE AREA COVERAGE IN NEARLY ANY ENVIRONMENT

Need to keep track of thousands of assets? High product density and heavy traffic across a large area? Get the capacity and range you demand for reliable RFID tag reading with the AN440 high-performance RFID area antenna. A good-looking, rugged general-purpose area antenna, the AN440 is designed to perform exceptionally in all environments, indoors and out. The AN440 RFID Antenna gives you a wide read field and high-speed RF signal conversion, so data capture is fast and accurate, even in expansive, high-demand environments. The AN440 is easy to mount on ceilings and walls, and its rugged white housing is at home in both customer-facing and industrial settings . So you can achieve superior read zones around stockroom shelves, warehouse doorways and dock platforms – anywhere boxes and pallets are moving into and out of your facility.

HIGHEST PERFORMANCE, MEET LONGEST READ RANGE

The rectangular AN440 antenna is designed to deliver faster, more accurate communication of EPC-compliant passive tag data to your RFID readers. So even in RF-challenging environments, you get longer read ranges and higher levels of performance. Your workflow keeps flowing, your inventory count stays accurate and your productivity can reach new heights. In addition, its dual-element architecture makes the AN440 suitable for bi-static operation. Or it can be used as two separate mono-static antennas in a single package. Deployment with Zebra fixed RFID readers is fast and easy, as the AN440 meets all standard technical requirements for any RFID implementation. So you can get your large-area application off the drawing board and into your production environment, quickly and efficiently.

END-TO-END LIFECYCLE SUPPORT

No matter what help you might need, we have you covered. Our full suite of services offers‘ from the manufacturer’ expertise throughout the entire lifecycle of your RFID solution — from assessment, commissioning and rollout to ongoing training and day-to-day support. Our RFID Advanced Services provide the assistance you need to architect your solution for your business, processes and environment, ensuring that your pilot or full-scale rollout is designed to deliver peak performance — and maximum benefits. And post deployment, Zebra’s Support Services provide the everyday support you need to keep your RFID solution up and running day in and day out, with service programs that include 24x7 on-site coverage and preventive maintenance visits.

For more information on how the AN440 RFID Reader can benefit your business, please visit us on the web at **www.zebra.com/an440** or access our global contact directory at**www.zebra.com/contact**

FEATURES

- Dual-element, ideal for bi-static operation
- Can be used as two separate mono-static antennas in one package
- Rugged design suitable for industrial applications

APPLICATIONS

- Ceilings and walls to create superior read zones around shelves
- Doorways and chokepoints where boxes and pallets are moving through
- Portals, outdoor gates and conveyors
- RF-challenging environments

AN440 RFID ANTENNA SPECIFICATIONS CHART

PHYSICAL		ENVIRONMENTAL	
Dimensions	22.6 inches L x 10.2 inches W x	Environmental	IP-67

	1.32 inches D (575.1 mm L x 259.1 mm W x 33.52 mm D)
Connectors	2 x Type N female
Connector Position	Back
Mounting Bracket	Integrated mounting holes
Weight	4.2 lbs (1.9 kg)
Casing	UV Stable ASA
Radome Material	UV Stable ASA, White

OPERATIONAL

Frequency Range	EU: 865-868MHz; US*: 902-928MHz *AN440 is optimized for US frequency
Gain	6 dBiL
VSWR (Return Loss)	<1.4 : 1
Front to Back Ratio	20 dB
Polarization	1 x LHCP / 1 x RHCP
3db Beam Width	70° in both phases
Max Power	10 W
Axial Ratio	1dB typical
Operating Temperatures	-22°F to +158°F (-30°C to +70°C)
DC Resistance	DC Grounded
Sealing	
RHOS Compliant	Yes
Storage Temperatures	-40°F to +185°F (-40°C to +85°C)
Vibration	IEC-68-2-6 (10 to 150 Hz, 05 g, 1 hour in each of two axes) (Random Vibration)
Humidity	MIL-Std 810G, METHOD 507.5, Procedure II - Aggravated
Warranty	The AN440 is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

RECOMMENDED SERVICES

Support Services	Service from the Start Advance Exchange On-Site System Support
Advanced Services	RFID Design and Deployment Services

ZEBRA

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