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## RFID

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### AN200 General Purpose RFID Antennas



#### Highlights

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### Create superior read zones throughout your enterprise

Symbol's General Purpose Indoor/Outdoor Radio Frequency Identification (RFID) Antennas can be used reliably in a wide range of indoor and outdoor environments from the warehouse to the production line to the docking zone.

#### Additional benefits:

Rugged design withstands environmental conditions such as extreme heat and cold, as well as moisture and vibration.

All-purpose antenna can be used in both standard RFID applications at power levels of up to one watt and in customized applications at power levels up to 20 watts.

#### Comprehensive RFID Antenna Portfolio

Radio Frequency Identification (RFID) Antennas from Symbol Technologies offer versatility and performance to meet diverse application needs. When used in conjunction with Symbol's RFID systems, communication with Electronic Product Code (EPC™)-compliant RFID tags is accurate, fast and efficient. Antennas are a vital component in reader-tag communications.

#### General Purpose Antenna for Indoor or Outdoor Applications

Get the convenience of a versatile antenna that can be utilized throughout your enterprise, from the warehouse floor and production line to outside the dock door. Able to withstand extreme heat and cold as well as moisture and vibration, this antenna is ideal for nearly any application, including retail, manufacturing, wholesale distribution, healthcare, government and more.

This all-purpose antenna can be used in standard RFID applications with power levels up to one watt, as well as custom high-power applications requiring up to 20 watts. The antenna is traditionally used in pairs, with right and left hand polarization.

#### Symbol RFID Antennas – A Vital RFID System Component

RFID Antennas complement the portfolio of Symbol enterprise mobility solutions that enable organizations to capture, move and manage critical information to and from every point of business activity. These efficient antennas are ideal for high-throughput, highcapacity communication of EPC-compliant RFID tag data.

For more information, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at [www.symbol.com](http://www.symbol.com).

#### Services for a More Successful Mobility Solution

Symbol offers a full suite of services, including complete analysis, design, installation, training and ongoing support for the seamless deployment, management and continued support of your RFID solution.

#### Specification Highlights

##### General Purpose Indoor-Outdoor Antenna

##### Physical Characteristics

**Dimensions:** 11.1 in. L x 11.1 in. W x 1.9 in. D  
/28.19 cm L x 28.19 cm W x 4.83 cm D

**Weight:** 3 lbs/1.26 kg

**User Environment**

<b>Operating Temperature:</b>	-40° to +149° F/-40° to +65° C
<b>Cold Test:</b>	IEC-68-2-1 (-40° F/-40° C for 24 hours)
<b>Heat Test:</b>	IEC-68-2-2 (158° F/70° C for 24 hours)
<b>Temperature Shock Test:</b>	IEC-68-2-14 (-40° F rising to 158° F/ -40° C rising to 70° C in 10 cycles of 60 minutes each)
<b>Humidity Test:</b>	IEC-68-2-30 (77° to 104° F/-25° to 40° C 24 hour cycles of 90% relative humidity)
<b>Rain Test:</b>	IEC-68-2-18 (8 hours minimum in rain chamber at 43 psi)
<b>Salt Fog Test:</b>	IEC-68-2-11 (96 hours, repetitive cycling)
<b>Random Vibration Test:</b>	IEC-68-2-6 (10 to 150 Hz, 05 g, 1 hour in each of 2 axes)

**Electrical Characteristics**

<b>Frequency Range:</b>	900-928 MHz
<b>Nominal Impedence:</b>	50 Ohm
<b>Impedence, DC:</b>	10 kOhm +/- 5%
<b>Gain in dBi linear:</b>	6.0
<b>Polarization:</b>	Right and left-hand circular polarization
<b>Axial Ratio at Boresight:</b>	< 3 db
<b>AZ, EL BW:</b>	60 degrees
<b>Front to Back Ratio:</b>	< 10 db
<b>Return Loss (VSWR):</b>	20 dB (1.22)
<b>Maximum Input Power:</b>	20 watts

NOTICE: Repairs of these products may require the use of Symbol proprietary parts (and/or Symbol proprietary information). Symbol will sell these parts (and provide this proprietary information) only to end-user customers for self-service. Applicable in the U.S. For all other countries, please contact your Symbol account manager or the local Symbol Customer Service representative in your area for further details.

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*For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.*

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**About Symbol Technologies**

Symbol Technologies, Inc., The Enterprise Mobility Company™, is a recognized worldwide leader in enterprise mobility, delivering products and solutions that capture, move and manage information in real time to and from the point of business activity. Symbol enterprise mobility solutions integrate advanced data capture products, radio frequency identification technology, mobile computing platforms, wireless infrastructure, mobility software and world-class services programs. Symbol enterprise mobility products and solutions are proven to increase workforce productivity, reduce operating costs, drive operational efficiencies and realize competitive advantages for the world's leading companies.

**White Papers****[Business Benefits from Radio Frequency Identification \(RFID\)](#)**

How do the many enterprises adopting and mandating EPC-RFID identify and capture the business benefits of EPC-RFID technology? To help companies define and deploy RFID successfully, this white paper discusses the benefits of RFID-based solutions and reviews the solutions adopted by companies in different markets.

**[Extend Mobile Track and Trace Applications with RFID and Bar Code Systems to Create a Healthier Life Sciences Supply Chain](#)**

Recent increases in drug and medical device counterfeiting have escalated the need for more sophisticated mobile "track and trace" applications that extend throughout the life sciences supply chain.

#### [RFID and the Mainstream Supply Chain](#)

Excitement abounds regarding RFID, today's hottest technology. Early adopters are already realizing significant supply chain improvements with RFID, and the technology is rapidly evolving and growing, providing solutions to a wide array of logistics problems.

#### [RFID Technology and EPC in Retail](#)

The ability to access information anytime, anywhere is vital in today's fast-paced world. More than ever, people need mobile information solutions to improve productivity and operate more efficiently. This technical brief discusses the impact of RFID on retailers, future innovations in retailing and recent developments in widespread deployments.

#### [Supplier Compliance with the Department of Defense RFID Mandate: Who is Affected, When, and What to do to Comply](#)

For vendors supplying goods directly or indirectly to the Department of Defense (DOD), it's not a question of "if" they should begin the process of integrating RFID (radio frequency identification) into their shipping procedures, but "when and how?"

#### [Two RF Inputs Make a Better RFID Tag](#)

RFID tags have been limited in their universal applicability due to read orientation sensitivity issues. A dual dipole RFID tag eliminates this problem and enhances the use of RFID for a broader range of applications.

#### [Understanding the Key Issues in Radio Frequency Identification \(RFID\)](#)

This white paper explores radio frequency identification (RFID), an automated data collection (ADC) system that enables businesses to wirelessly capture and move data using radio waves.

#### [White Paper: EPC-Enabled Enterprise Mobility: Capture, Move, Manage](#)

RFID (Radio Frequency Identification) is one of the newest and most promising technologies on the horizon for supply chain applications, holding out the prospect of significant increases in inventory velocity and availability at all stages in the supply chain.

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