

RFID UHF Tag Inlays

RFID TAG INLAYS

Dynamic Tags for Application Flexibility

RFID Ultra High Frequency (UHF) Tags from Symbol Technologies are Electronic Product Code (EPC)[™]-compliant Class 0 tags. These passive tags create real-time visibility for identifying and tracking objects moving through the supply chain or on and off the shelves.

Symbol RFID tags are ideal for applications where unique identification and non line-of-sight data capture is a necessity. The tags are easily attached to containers, pallets and boxes. A full duplex protocol offers faster data collection, and a variety of tag form factors provide a full suite of affordable options.

Symbol	Read-Only Class 0 Tags	Read/Write Class 0 Tags
Functionality	Read-only (factory programmed)	Write many, write once, read many (user programmed)
Specification	112-bit	2-page memory, 288 total bits: 128-bit unique ID, 128-bit user data and 32-bit control page for lock and kill features
Frequency	UHF	UHF

Versatile Tag Formats for Use with Many Applications

RFID UHF tags are available in four different formats: inlays, adhesive inlays, labels and converted products. Inlays include both the RFID chip and antenna mounted on a substrate. The adhesive inlay format simply adds a pressure-sensitive adhesive to the back of the inlay. Labels are RFID adhesive inlays attached to thermal transfer labels for use in printers. Converted products provide an inlay that is laminated or encapsulated into a specialized package. This package includes plastic, rubber or other material that can be custom designed, molded or laminated.

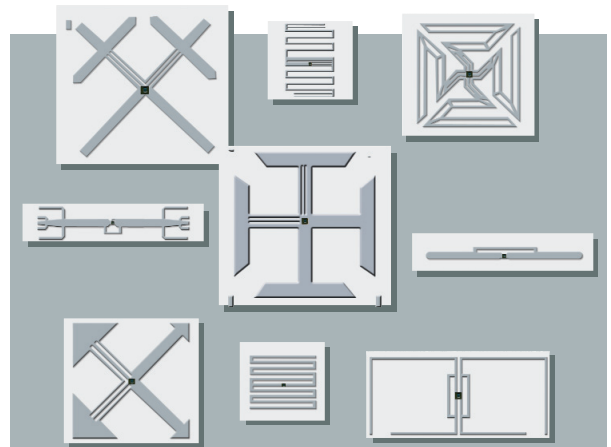
Cost-Effective, Accurate Data Capture

RFID UHF passive tags 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. Designed for a variety of supply chain applications, EPC-compliant RFID UHF tags deliver affordable, unique identification and tracking for items, cases and pallets.

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.

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/rfid.



FEATURES

- RFID UHF passive tags
- EPC Class 0 compatible
- Read-only tags
- Read/write tags
- Full duplex protocol
- High performance – long read range of up to 25 feet (7.6 m); up to 1,000 tags per second read rate
- EPC-compliant ID structure
- Dual dipole offerings
- Collision-free protocol

BENEFITS






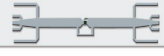



- Provides superior, cost-effective data collection for increased supply chain visibility
- Read easily by any Class 0-compliant reader
- Offers quick deployment and lower cost infrastructure
- Provides maximum functionality and user data memory
- Transmits and receives data simultaneously for faster data collection and increased productivity
- Delivers excellent performance in a variety of supply chain applications
- Ensures substantial space for unique identification
- Provides superior flexibility in tag orientation resulting in optimum read rates
- Performs faster data collection

RFID UHF Standard Tag Inlays Specification Highlights

In addition to the standard tags listed below, Symbol has developed several product offerings for custom applications and also develops customized tag inlays pending the application specification and volume needed. For finished RFID converted label products using the tag inlays below, contact your Symbol sales representative.

Specifications apply to all read/write tag inlays: RF EPC Class 0 protocol, 2-page memory, 256-bits + 32-bit CRC; Read rate: Up to 1,000 tags/second; Write distance: from 3 to up to 10 feet (0.9 to 3 m)*

For all read-only tags listed below, the following specifications apply: RF EPC Class 0 protocol, Version 1, memory 96-bits + 16-bit CRC, Read rate: up to 1,000 tags/second

Description		Use**	Antenna	Inlay Size	Read Distance*
Available in Both Read/Write (256-bit) and Read-Only (96-bit) Tag Inlays					
Single Dipole					
	General use case, carton or asset label tag	P,C,B	Single Dipole	1 in. x 6 in. (2.5 cm x 15.2 cm)	Up to 25 ft. (7.6 m)
	General use case tag inlay w/adhesive				
	General use case tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
Dual Dipole					
	Generic item label tag	P,W,P	Dual Dipole	2.2 in. x 2.2 in. (5.6 cm x 5.6 cm)	Up to 12 ft. (3.7 m)
	Generic item tag inlay w/adhesive				
	Generic item tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
	Standard case label tag	B,C,WP	Dual Dipole	2 in. x 4 in. (5.1 cm x 10.2 cm)	Up to 20 ft. (6.1 m)
	Standard case tag inlay w/adhesive				
	Standard case tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
	Pallet label tag	P,W,P,C	Dual Dipole	2.9 in. x 2.9 in. (7.4 cm x 7.4 cm)	Up to 15 ft. (4.6 m)
	Pallet label tag inlay w/adhesive				
	Pallet label tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
Available Only in Read/Write (256-bit) Tag Inlays					
Single Dipole					
	Generic item label tag	Ph, GB	Single Dipole	.95 in x 1.3 in. (2.4 cm x 3.3 cm)	Up to 5 ft. (1.5 m)
	Generic item tag inlay w/adhesive				
	Generic item tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
	General case label tag	C,GP,WP	Single Dipole	1 in x 4 in. (2.5 cm x 10.2 cm)	Up to 10 ft. (3.0 m)
	General case tag inlay w/adhesive				
	General case tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
Dual Dipole					
	Generic case label tag	C	Dual Dipole	4 in. x 4 in. (10.2 cm x 10.2 cm)	Up to 25 ft. (7.6 m)
	Generic case tag inlay w/adhesive				
	Generic case tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
Available Only in Read-Only (96-bit) Tag Inlays					
Single Dipole					
	Generic item label tag	Ph,GB	Single Dipole	1 in x 1 in. (2.5 cm x 2.5 cm)	Up to 5 ft. (1.5 m)
	Generic item tag inlay w/adhesive				
	Generic item tag inlay w/no adhesive				
	Demo kit 100-pack ¹				
Dual Dipole					
	Generic case label tag	C,PA,P	Dual Dipole	4 in. x 4 in. (10.2 cm x 10.2 cm)	Up to 25 ft. (7.6 m)
	Generic case tag inlay w/adhesive				
	Generic case tag inlay w/no adhesive				
	Demo kit 100-pack ¹				

¹Demo rolls of 500 in roll configuration are available upon request for quote.

*Note: The actual read or write range of any given tag inlay varies depending on its size, usage and application environment.

**Legend:

B = Bagtag; C = Corrugated cardboard; CF = Concrete floor; G = Glass; GB = Glass bottle; GP = General purpose; M = Metal; P = Plastic; PA = Paper; Ph = Pharmaceutical; W = Windshield; WP = Wooden pallet

NOTICE: Repairs of this product 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. It is Symbol's policy not to sell these parts to third-party service providers and not to allow a third-party service provider to act as an ordering or receiving agent for the parts necessary to repair this product. 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.

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 under the Symbol Enterprise Mobility Services brand. 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. More information is available at www.symbol.com.



Corporate Headquarters
Symbol Technologies, Inc.
 One Symbol Plaza
 Holtsville, NY 11742-1300
 TEL: +1.800.722.6234
 +1.631.738.2400
 FAX: +1.631.738.5990

For Asia Pacific Area
Symbol Technologies Asia, Inc.
 (Singapore Branch)
 Asia Pacific Division
 230 Victoria Street #05-07/09
 Bugis Junction Office Tower
 Singapore 188024
 TEL: +65.6796.9600
 FAX: +65.6337.6488

For Europe, Middle East and Africa
Symbol Technologies
 EMEA Division
 Symbol Place, Winnersh Triangle
 Berkshire, England RG41 5TP
 TEL: +44.118.9457000
 FAX: +44.118.9457500
 MSP 07/04

For North America, Latin America and Canada
Symbol Technologies
 The Americas
 One Symbol Plaza
 Holtsville, NY 11742-1300
 TEL: +1.800.722.6234
 +1.631.738.2400
 FAX: +1.631.738.5990

Symbol Website
 For a complete list of Symbol subsidiaries and business partners worldwide contact us at:
www.symbol.com
E-mail
info@symbol.com



RFID UHF TAG 02/05

Part No. RFID UHF TAG Printed in USA 02/05 © Copyright 2005 Symbol Technologies, Inc. All rights reserved. Symbol is an ISO 9001 and ISO 9002 UKAS, RVC, and RAB Registered company, as scope definitions apply. Specifications are subject to change without notice. All product and company names are trademarks, service marks or registered trademarks of their respective owners. For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.