

MASTIFF™ Tag

Active RFID Tag

for

People Tracking and Monitoring



Product Brochure

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Document Revision History

Revision No.	Date	Description/Changes
1.0	21/09/2012	Initial Release

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1. Introduction

Mastiff™ Tag is an active RFID tag ideal for monitoring people indoors or outdoors. Schools or organizations can use this tag as a ID card and do real-time tracking and monitoring of students, employees, visitors or contract workers inside schools, hospitals, high security offices or in construction sites or in moving vehicles. The periodic data sent by the tag can be captured by a compatible Mastiff™ active RFID reader. The captured data is sent to software for reporting or analytical reasons.

The tag comes along with the user configuration utility which allows configuration of many parameters of the tag wirelessly. The utility is an easy to use software interface, through which the user can read and write the configuration data to the tag. Configuration data includes the tag ID, time interval of transmission, RF data rate, active/sleep mode and the signal strength of the transmission.

The tag is completely sealed inside a rugged ABS plastic enclosure and certified with IP67 protection which will protect it from water and dust. It has an optional internal memory up to 128 KB which can store additional information about the students as per the customers' requirements. The sleek design of the tag is comparable with the traditional ID card of the students making it an ideal replacement of normal ID cards.

The tag design has been optimized for very low power consumption to give a higher battery life of 5 years. The tag sends a low battery warning to the software which will enable us to replace the tag before it dies down. The tag is a low power transmitting device complies with all regulatory requirements and certified as safe to use on people.

2. Device Specifications

2.1. Environmental Specifications

- Operating Temperature -20°C to + 50°C

2.2. Physical Specifications

- Dimensions 85 x 55 x 5 (L x W x H) in mm
- Color White
- Casing Material ABS Plastic

2.3. Electrical Specifications

- DC Source 3VDC, 1000mAH Battery
- Battery Life 5 Years*

2.4. RF Specifications

- Operating Frequency 865 to 870 MHz, 902-928 MHz
- Modulation GFSK
- Sensitivity -109 dBm
- Data Rate 100 kbps (Default)
- Air Protocol Proprietary-Reindeer Technologies Pvt Ltd
- RFID Tag Compatibility Personal, Asset, Vehicle
- Range 60 meters line of sight

** Indicates operating the tag at a RF baud rate of 100 kbps within the acceptable temperature range and with the tag transmit time interval of 10 seconds.*

3. Application Areas

- Real-time tracking of students, employees, workers and visitors
- Student Attendance Management
- Employee In/Out Records
- Employee Productivity Management
- Visitor Management in high secure areas
- Access Control
- Safety and Security
- Emergency Response and Evacuation
- Energy Management

4. Ordering Information

Product part Number	Description
MASTIFF_STAG	Active RFID Tag for People Tracking and Monitoring

5. Contact Us

12.1. Technical Support

Reindeer Technologies Pvt. Ltd. has built a solid technical support infrastructure so that you can get answers to your questions when you need them.

Our technical support engineers are available Mon-Fri between 9:30 am and 6:00 pm Indian standard time. The best way to reach a technical support engineer is to send an email to support@reindeersystems.com. E-mail support requests are given priority because we can handle them more efficiently than phone support requests.

12.2. Sales Support

Our sales department can be reached via e-mail at sales@reindeersystems.com or by phone at 91-44-45022335/42606907.

Our sales department is available Mon-Fri between 9:30 am and 6:00 pm.

Reindeer Technologies Pvt Ltd

Excellence through Innovation™

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