



# **ET33 tag use's manual**

**version number : V1.0**

Mine Site Technologies Pty Ltd

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## Statement

Thank you for using this electronic product of our company. In order to let you experience the product swimmingly, detailed instruction is provided which you can find the product's introduction, usage and other information. Before using this product, please read the manual carefully, so that you can correctly use it. In case of any printing or translation error, we apologize for the inconvenience. As for the content change, we are sorry for no further notice.

## General Information

The Mine Site Technologies ET33 tag is a radio frequency identification module operating at 2.4GHz. The AL2236 IC of Airoha Technologu Corp and MSP430 microcontroller unit are working together, realizing the carrier arising, signal amplify, data modulation, demodulation and decoding. Radio-frequency mode in the reader and ET33 Rf tag no contact between the bidirectional data transmission, in order to achieve target recognition and data exchange. And the tradition of code, magnetic and IC card, compared with non-contact, RF card reading speed, wear, not by environmental impact, long life, easy to use and has the characteristics of anti-collision function. ET33 tag is mainly used for

container port.

## Physical map

ET33 Tag physical map as follows.



## Component function

- LED light : After press button and low voltage alarm.
- Button : Alarm.

# Performance index

Mechanical Structure Index		
Item	Name	Specific parameters
1	Size	124mm X 57mm X 28mm
2	Weight	124g
Electrical Performance Index		
Item	Name	Specific parameters
1	Power supply	Battery
2	Rated voltage	DC 3.0V ~ 4.2V
3	Working frequency	Transmitter frequency:2.4GHz; Receive frequency:125KHz
4	Communication protocol	IEEE 802.11b
5	Transmitter frequency	Adjust
6	Low voltage alarm	≤3.05V
Environment Index		
Item	Name	Specific parameters
1	Operating temperature.	-25°C ~ +60°C
2	Anti-static grade	Air discharge : 8000V

## Accessories

1. Tag.
2. A set of Use's Manual & warranty card.

## General attention

1.To avoid degaussing, please keep the tag away from the magnetic materials, such as disk, credit cards, etc., to ensure that the tag is not contact with any liquid.

Do not bump,shake or throw the tag in case of malfunction or lighting a fire.

Do not put tag on microwave oven or high-tension apparatus to avoid circuit damage and fire accident.

Do not use under flammable and explosive gas in case of malfunction or lighting a fire.

Do not put it on uneven or unstable surfaces to avoid falling off or breakdown.

2. ET33 Tag use disposable batteries.Can't recharge. You can replace if the battery capacity is insufficient. Use the battery appointed by the company. Other production may cause battery leakage, overheating, explosions and lighting a fire.

## Warranty conditions

For any defect, in the judgment of our technician, caused under normal use, we are responsible for repairing free of charges one year commencing from the date of purchase at the discretion of our company. A valid warranty card and original purchase invoice must be presented upon request of warranty service.

This warranty card shall not apply to the product if

(1) It has explicitly modified or repaired in any way by persons other than technicians of this company, or

(2) It has been damaged through misuse, malicious acts, negligence, and inflow of any liquid, accident or natural calamities.

No alteration to this warranty card will be allowed

The warranty terms and conditions will be subjected to change with prior notice.

Please retain your proof of purchase for warranty service.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

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Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



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Consult the dealer or an experienced radio/TV technician for help.

### FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference from authorized radio communications.

erference that may cause undesired operation.

### Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.