Product Specification for TM001-ZA

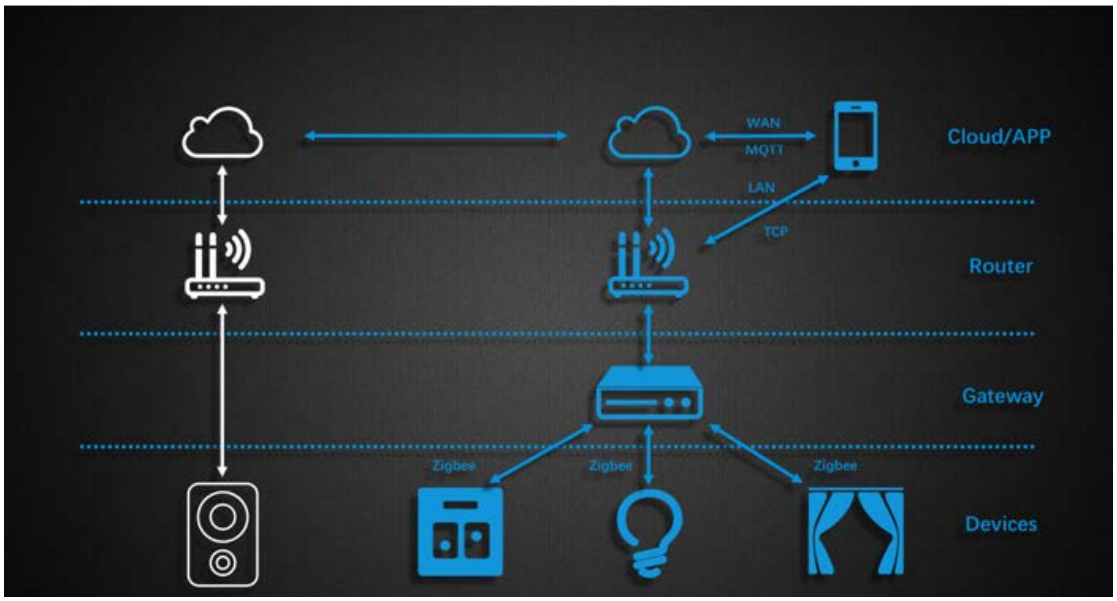
Door and Window sensor

1. Product Profile

1.1 Overview

As a low-cost product solution developed by Hangzhou Tuya Information Technology Co., Ltd. based on the Zigbee module (TYZS2), the TM001-ZA Door and Window sensor can help clients realize mass production in a short time.

1.2 Application Framework



2. Product Specification

2.1 Basic Parameters

- ✧ Name: Door and Window sensor
- ✧ Model: TM001-ZA
- ✧ Supported mobile phone operating systems: Android 4.4+; iOS 8.0+
- ✧ Battery type: 3V CR2032
- ✧ Magnet material: N38

2.2 Technical Indexes

Item	Parameter
Transport protocol:	ZigBee
Wireless frequency:	2.4 GHz
Working voltage:	3.0 V
Detection range:	Opening and closing of the door/window at a fixed position
Working current (reported):	5 mA on average (Zigbee)
Standby current:	<3 uA

2.3 Appearance

3. Product Features

3.1 Indicator Light and Status Switching

Item	Description
Power on	**The blue light is steady on for 5s**
Distribution network state	**The blue light fast flashes (150 ms)**
Working mode	**The blue light is steady off**
Data report	**The blue light flashes once**

3.2 Data Report Frequency

- ✧ Report frequency: Report immediately after the door/window state has changed
- ✧ Detection distance: 10 mm - 20 mm (Affected by the environment)

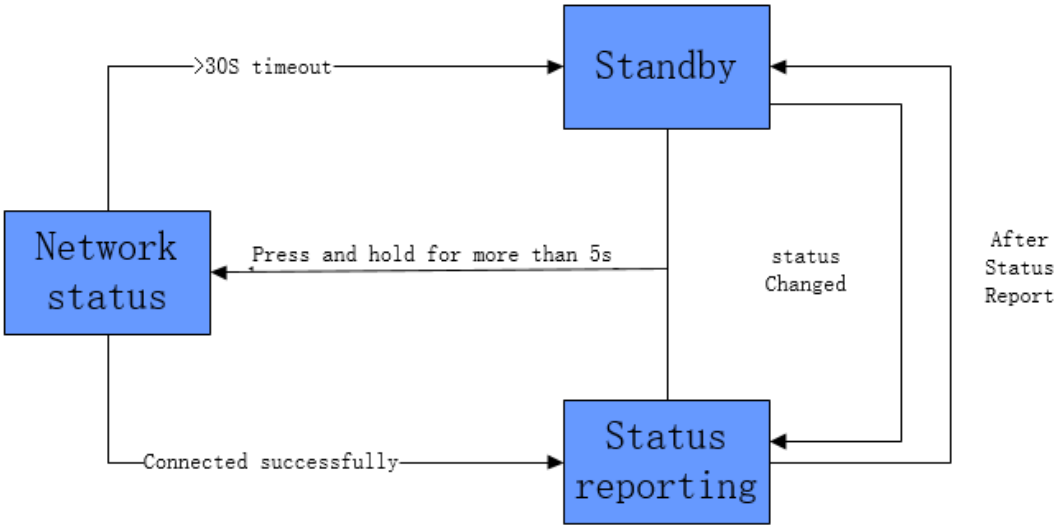
3.3 Reset Mode

Long press the button of the device with a reset pin for 5s to make the blue indicator light fast flash, thus initiating reset and entering the distribution network mode. After ensuring that distribution network is available for the gateway, use the mobile phone APP to connect with the device.

3.4 Change Batteries

Open the bottom cap of the device to change batteries. Please purchase CR2032 batteries with guaranteed quality.

3.5 Logic of Distribution Network Report



3.6 Functional Characteristics

Item	Description
Activity detection	Monitor the door/window state
Push	After message push is enabled on the APP, the cloud will push a message to the mobile phone through the gateway whenever the door/window state changes.
Battery energy detection	Battery energy report
Linkage	Add a product for linkage through the APP (e.g. air conditioner or curtain) and configure options. When the door/window state changes, turn on/off the air conditioner, or open/close the curtain.
History	Seven-day history browse is supported.

3.7 Environmental Parameters and Notes

- ✧ Working temperature: -20°C to 60°C
- ✧ Relative humidity: 0% to 95% (no condensation)
- ✧ Placement: Avoid environment with magnetic field interference
- ✧ Installation: Choose the closed position of the door/windows

3.8 Control Panel and APP

The control panel uses the public version, and supports Tuya APP and OEM APP.

4. Product Packaging

4.1 Packaging Materials

1. Magnetic gate sensor
2. Reset pin
3. Manual
4. Battery

FCC Statement

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

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 that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Note: 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.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.