

Smart Bridge Information, Inc.

Slippage Detection
SD001 Specification

RF IoT Sensor Serial

Rev. 1.0.3

Date: 2017/02/12

Temperature Monitor TM001 Specification Revision History

Version	Revised Date	Person Name	Content Revised
1.0	2017/02/12	William Wang	First Draft Release
1.0.1	2017/02/18	Yu-Yuan Chao	Wording.
1.0.2	2017/06/12	William Wang	Specification modify in 3.1 and remove 2.4.
1.0.3	2017/08/24		Add 4.1 / 4.2 data

1.0 Introduction

Slip Detection is the latest detection for SmartHome nursing serial product. Slippage detection is for the bathroom, and the kitchen to detect the human body when it falls or slips down.

For elderly persons, it is possible to slip and get seriously injured because of long wait, if no one was notified when this event happened. This device could detect if a person slipped in certain conditions and send out warning message in the form of a push-notification to your smart phone or tablet, and sound an alarm for people in the vicinity.

It is a device that's easy to install, easy to operate and is cost-friendly. It can be included within our SmartBridge IoT environment.

2.0 Product Features

2.1 Features:

2.1.1 Using 8*8 Thermopile to capture the temperature of human body.

2.1.2 Using 32Bit Cortex M0+ 48Mhz for main processor.

2.2 Thermopile Specification:

2.2.1 FOV:35 degree.

2.2.2 Distance : 3M (The error will be relative to distance.)

2.3 MCU Specification:

2.3.1 NXP KL03 Serial MCU

2.3.2 Cortex M0+ 32Bit/48Mhz.

2.3.3 Support IO Interface : I2C, UART, SPI, GPIO

2.3.4 Support 12 bit ADC

2.3.5 Build-in RTC / PWM.

3.0 Physical & Environment

3.1 Power

- 18650 Li Battery cell * 2
- 3.7V Li-Battery specification.

3.2 Operation environment Temperature

- 20 ~ 30 °C

3.3 Storage Temperature

- -20 to 50 °C

3.4 Power consumption:

3.4.1 Max : 35mA@5V

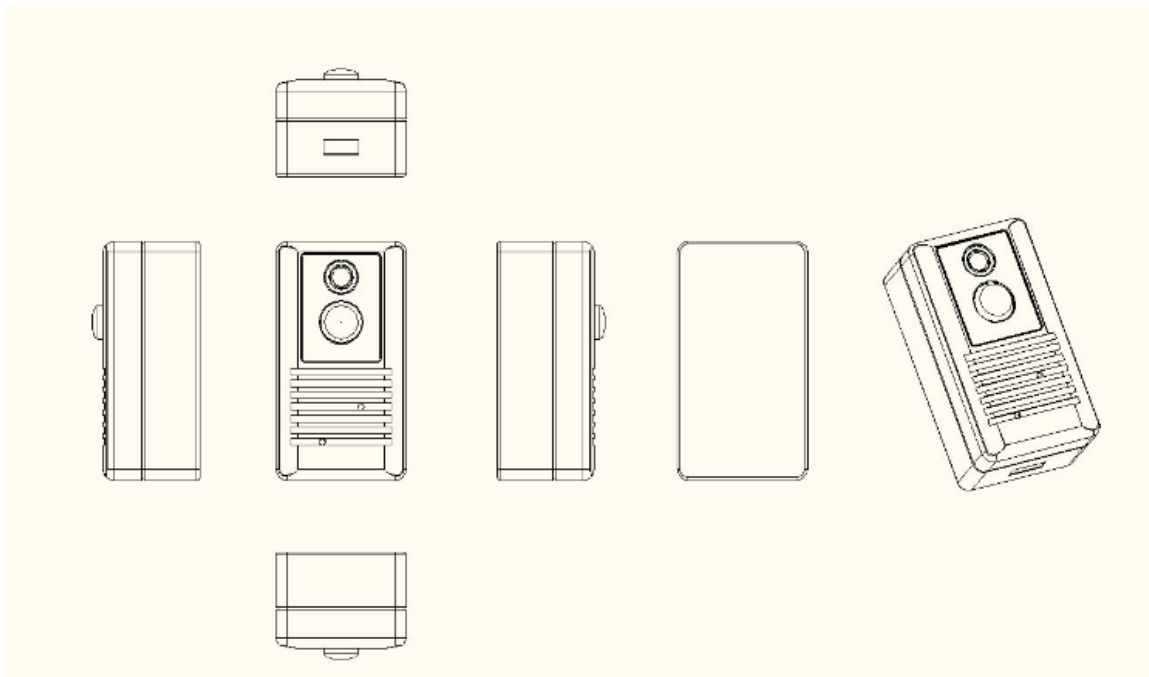
3.4.2 Normal : 15mA@5V

3.5 Humidity

- 20-80% RH non-condensing
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4.0 ID Specification

4.1 六面圖:



4.2 材質: ABS

5.0 Emission (EMI), Safety & Other Certifications: CE/FCC

6.0 Product Information: TM001