<BUZZER>

|  |  |
| --- | --- |
| **Document Name** | <buzzer module> |
| **Version** | 1 |
| **Author** | <Nadine Reda> |
| **Status** | Proposed |
| **Date** | 4/1/2016 |

Introduction

*This module enables user for sending 1 to the buzzer through microcontroller to fire an alarm that the temperature has risen than the threshold.*

*It works only on 5v*

## Document Scope

BUZZER description for further use.

## Goals and Objectives

This module helps user to use I/O pins to fire an alarm

## Context Diagram

*Add the* System *context* diagram *of the system here*

Figure 1 : System *context* diagram *of <DIO>*

|  |  |
| --- | --- |
| **Interface** | **Description** |
| *Buzzer* | *Connecting a buzzer on a digital i/o pins that when we write 1 to it, it fires an alarm in case of any temperature rises.* |

Table 1: Interfaces description

*Add the Control Flow Diagram of the system here*

Figure 2 : Control Flowdiagram

|  |  |  |  |
| --- | --- | --- | --- |
| ***API*** | ***Description*** | ***Inputs*** | ***Return Value*** |
| **void** **BUZ\_voidBuzOn**(**void**) | Firing an alarm | N/A | N/A |
| **void** **BUZ\_voidBuzOff**(**void**) | Turning off the alarm | N/A | N/A |

Table 2: API description

# Design Constraints

## Constraints on Initialization

Works on 5v only

## Constraints on Inputs

N/A

## Constraints on Outputs

N/A

## Communication/Network Constraints

N/A

## Diagnostic Constraints

N/A