



## Contents

<b>1</b>	<b>Function pin assignment .....</b>	<b>3</b>
<b>2</b>	<b>Getting Started Guide .....</b>	<b>4</b>
<b>3</b>	<b>Hardware Design Overview.....</b>	<b>5</b>
3.1	Power supply.....	5
3.2	Startup mode selection .....	5
3.3	LED indicator.....	5
3.4	Button .....	6
<b>4</b>	<b>Routine usage guide.....</b>	<b>7</b>
4.1	GPIO Toggle.....	7
<b>5</b>	<b>Schematic .....</b>	<b>8</b>
<b>6</b>	<b>Version history .....</b>	<b>9</b>

PUYA CONFIDENTIAL

## 1 Function pin assignment

Table1-1 Pin assignment

Function	pin	describe	Remark
LEDs _	\	LED1	Power LED
	PB5	LED2	LEDs _
KEY	PA12	SW1	User Key
	PF2	SW3	Reset Key

## 2 Getting Started Guide

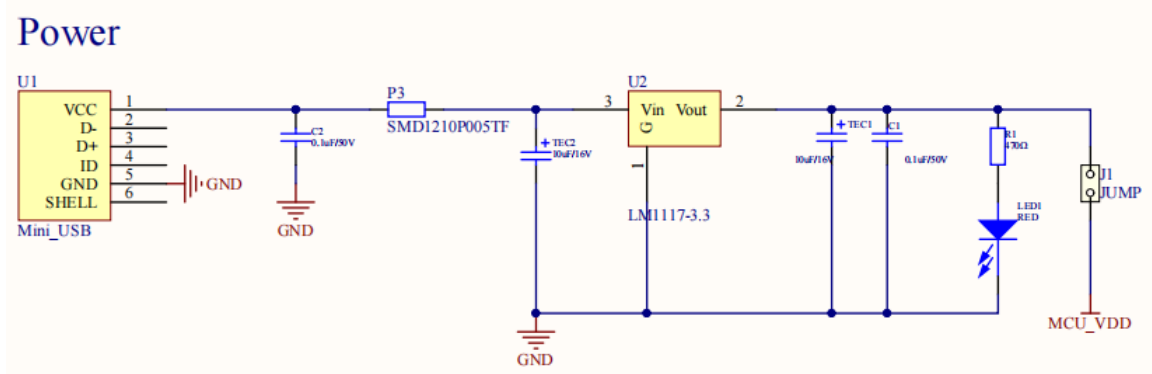
The development board uses a mini-USB to LDO to provide 3.3V power. In order to download programs to the development board, a mini-USB cable is required. Select the correct boot mode, connect the USB cable, if LED1 is lit, it means the power connection is correct. The routines are only available in the Keil version.

PUYA CONFIDENTIAL

### 3 Hardware Design Overview

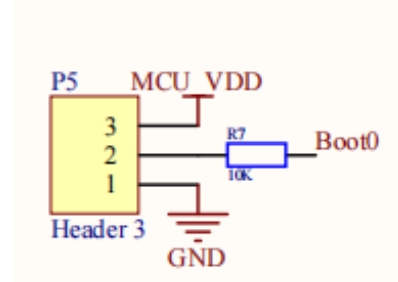
#### 3.1 Power supply

Figure 3.1-1 Schematic diagram of power supply



#### 3.2 Startup mode selection

Figure 3.2-1 Schematic diagram of startup mode selection



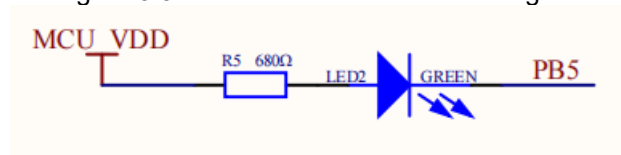
Through BOOT0 pin and boot configuration bit nBOOT1 (stored in Option bytes), three different boot modes can be selected, as shown in the following table:

Table 4.2- 1 Startup mode configuration

nBoot1 bit	BOOT0 pin	boot mode
X	0	Select Main flash as the boot area
1	1	Select System memory as the boot area
0	1	Select SRAM as the boot area

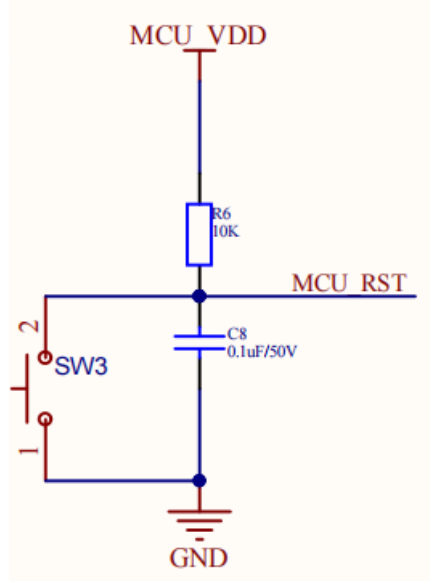
#### 3.3 LED indicator

Figure 3 3 LED functional schematic diagram



3.4 Button

Figure 3 4 Function schematic diagram of reset button



PUYA CONFIDENTIAL

## 4 Routine usage guide

### 4.1 GPIO Toggle

#### 4.1.1 DEMO purpose

This routine includes the following functions of the MCU:

- Learn to use GPIO to control LEDs
- Learn to use SysTick to generate delays

There is 1 LED on the development board. The LEDs are controlled via GPIO. This example will describe how to light up an LED.

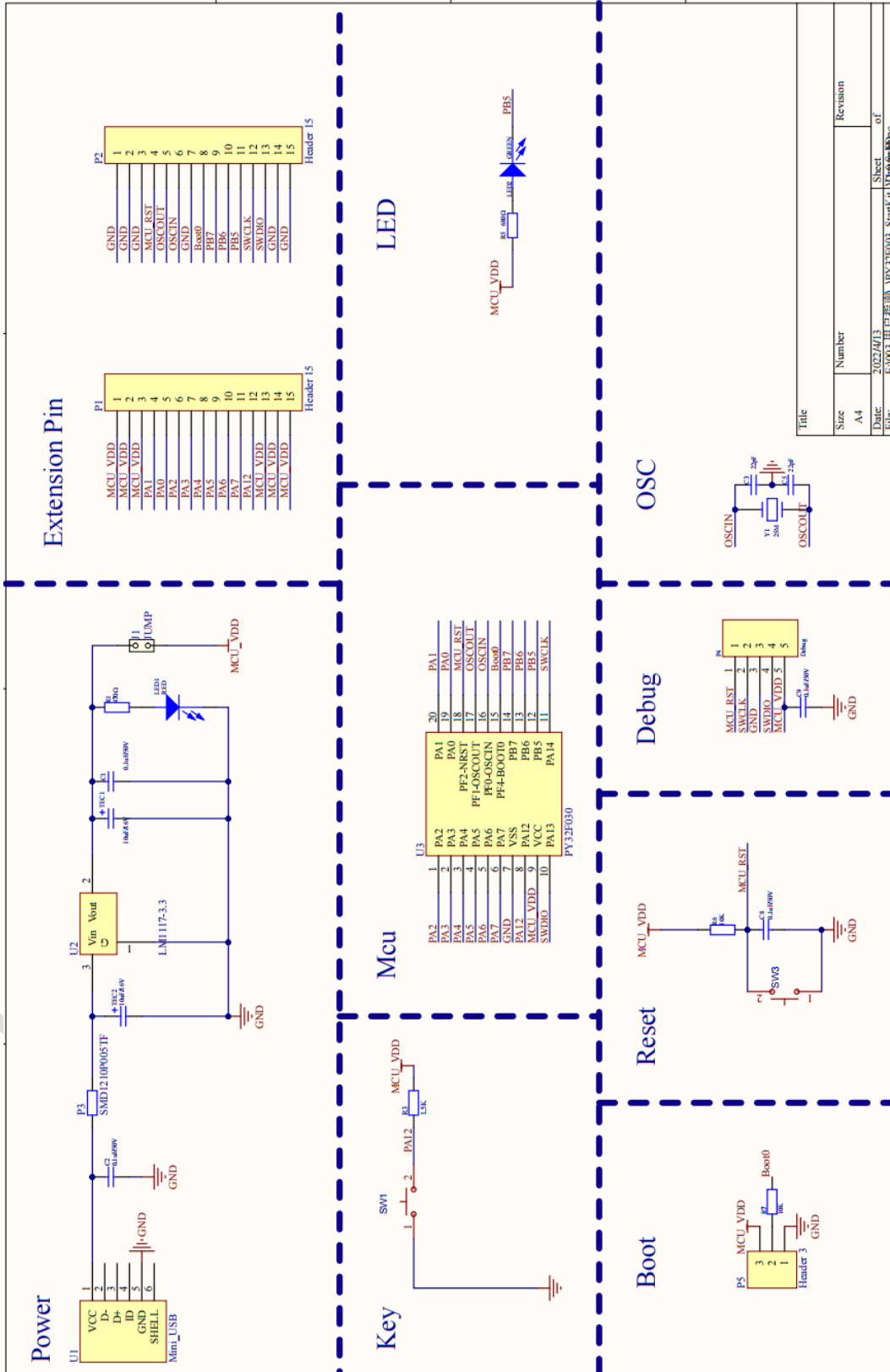
#### 4.1.2 DEMO execution result

Download the program <GPIO\_Toggle> to the development board, the LED blinks.

PUYA CONFIDENTIAL

# 5 Schematic

Figure 5-1 Schematic



Title		Revision	
Size	Number	Sheet	
A4		of	
Date:	2022/4/13	File:	
EM03 用户指南\VPY32F0303_StartKit\VPY32F0303		EM03 用户指南\VPY32F0303_StartKit\VPY32F0303	



## 6 Version history

Version	Content	Date
V1.0	Initial Release	2022.07.05



Puya Semiconductor Co., Ltd.

### IMPORTANT NOTICE

Puya Semiconductor reserves the right to make changes without further notice to any products or specifications herein. Puya Semiconductor does not assume any responsibility for use of any its products for any particular purpose, nor does Puya Semiconductor assume any liability arising out of the application or use of any its products or circuits. Puya Semiconductor does not convey any license under its patent rights or other rights nor the rights of others.