Embedded : Wireless Keyboard

Sample Schematic
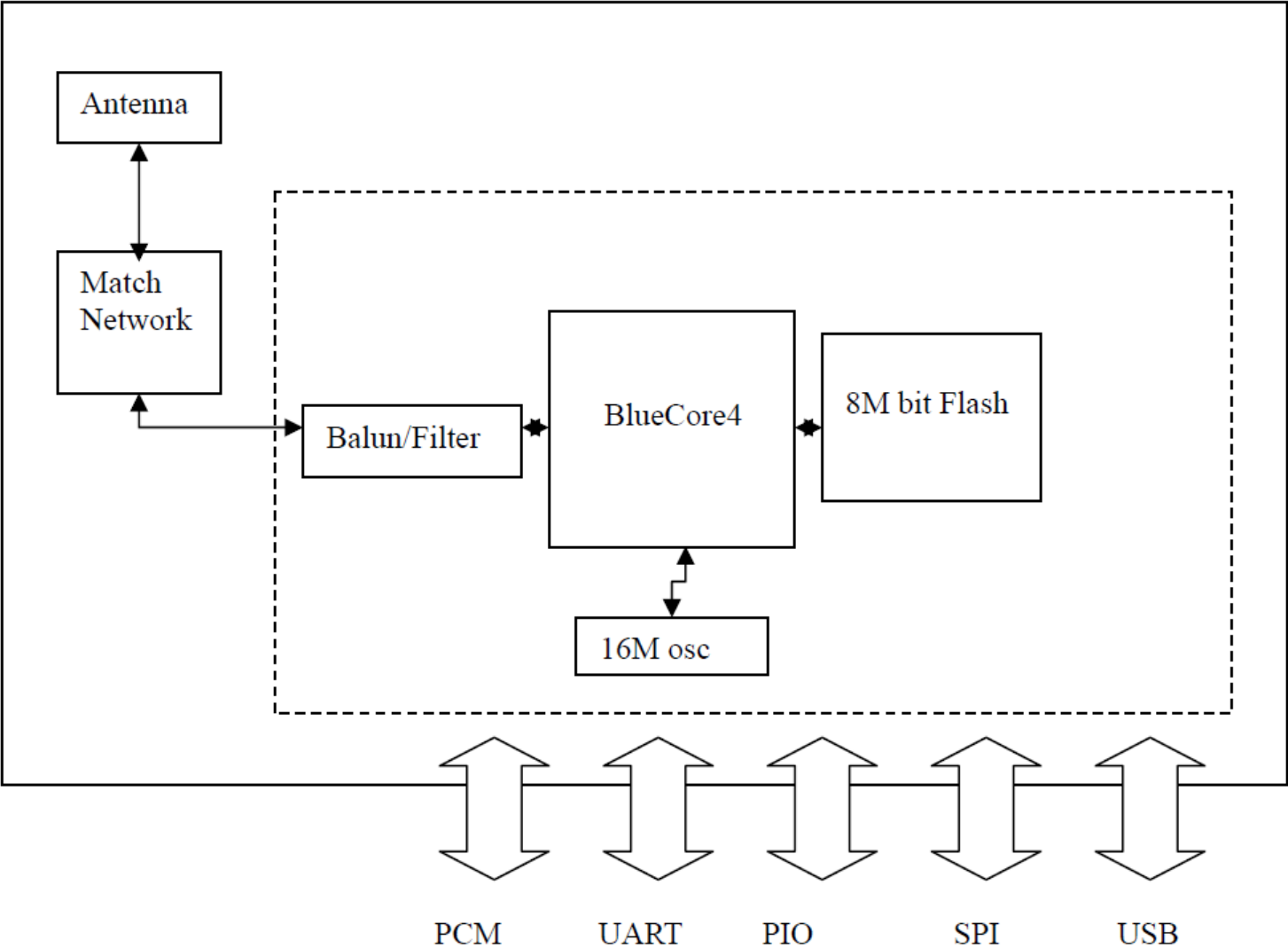
Bluetooth Module : AUBTM20

Points to note

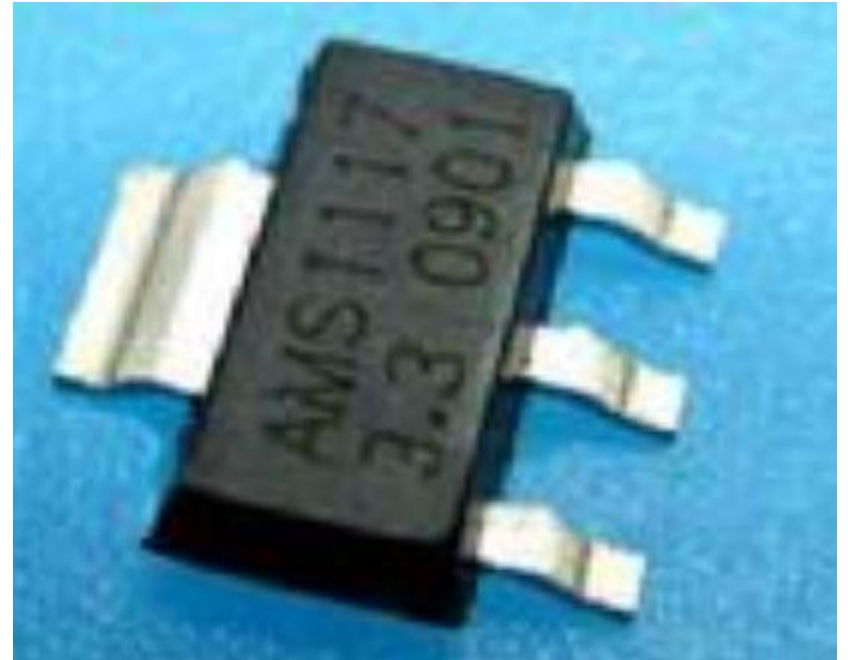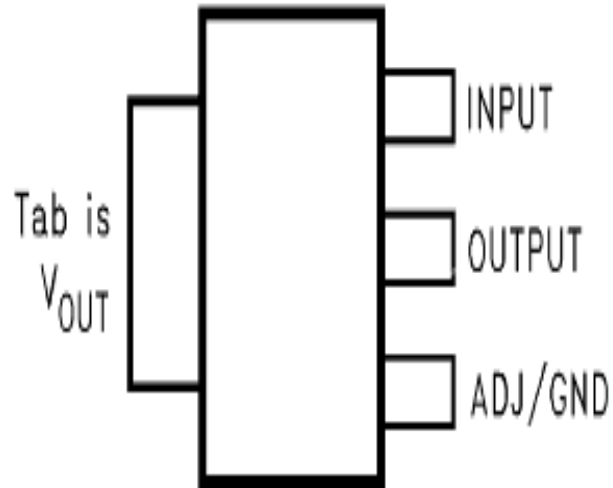- Works on 3.3V (not on 5V)

- Has UART communication
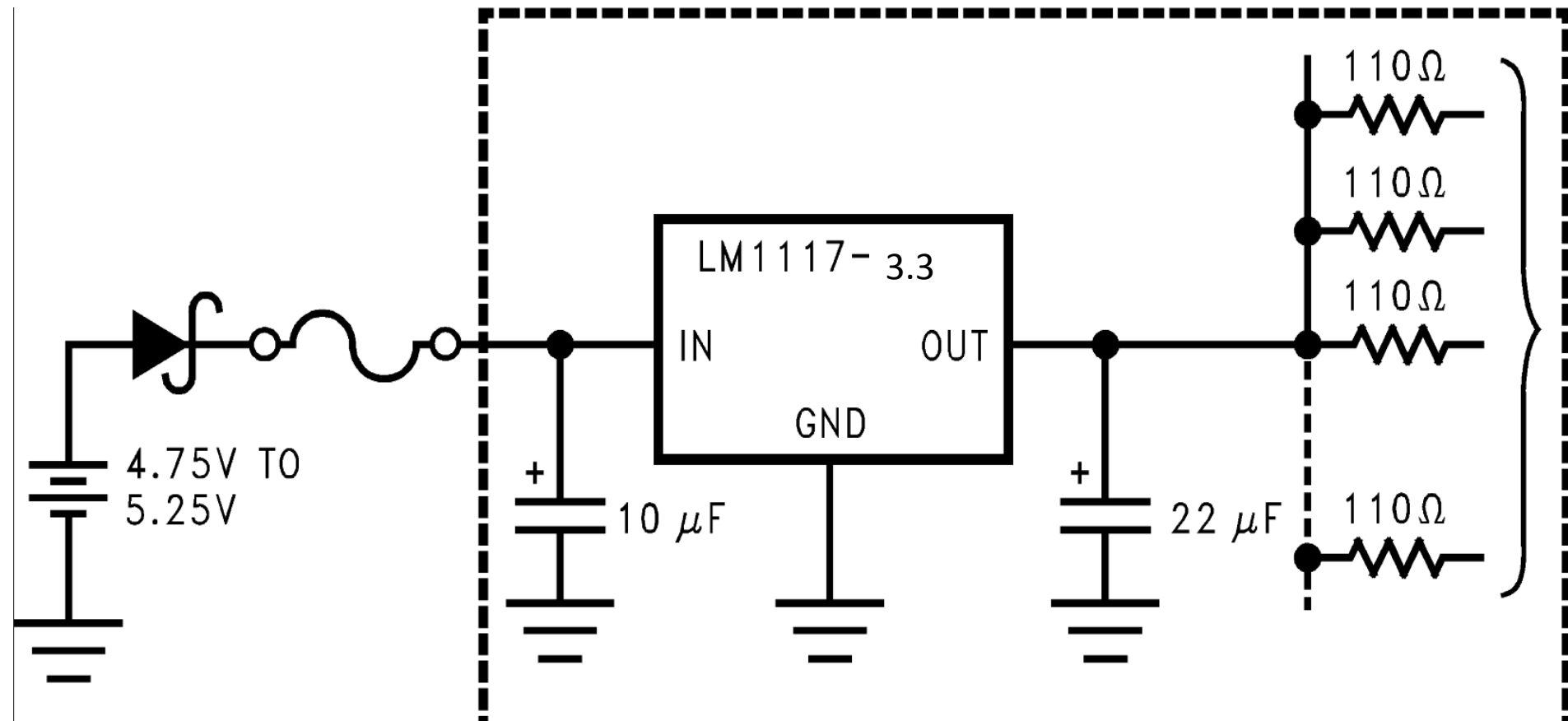
- Has SPI interface

- Has USB interface

Datasheet:-
http://www.austartech.com/resourcefile/20092
45843.pdf

LM1117 SOT223 3.3V

SOT-223

Tab is V_{OUT} — INPUT, OUTPUT, ADJ/GND

Basic LM1117 Circuit

Matlab Code (Serial Port)

```
s=serial('COM1');
fopen(s);
Fprintf(s,'a');
Fscanf(s);
<Code>
Fclose(s)
```

Robot Class in Matlab

```
import java.awt.AWTException;
import java.awt.Robot;
import java.awt.event.KeyEvent;
robot=Robot;
robot.keyPress(KeyEvent.VK_H);
robot.keyRelease(KeyEvent.VK_H);
robot.keyPress(KeyEvent.VK_SPACE);
robot.keyRelease(KeyEvent.VK_SPACE)
```

Prelims

Thank you