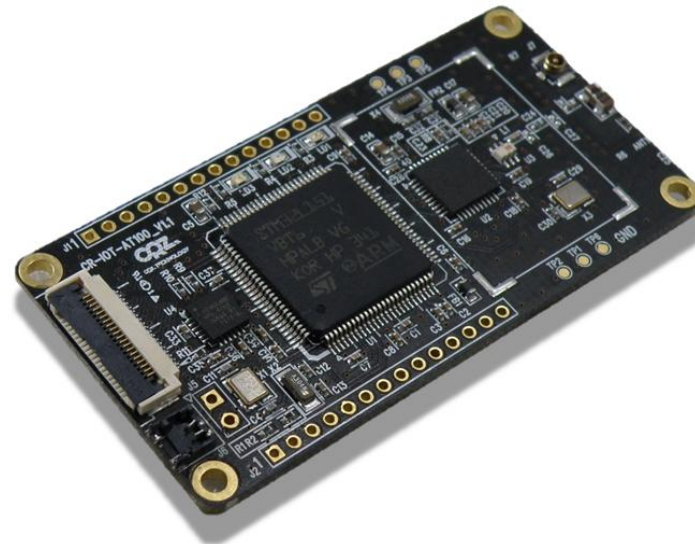


# Quick Start Guide

**CRZ.**

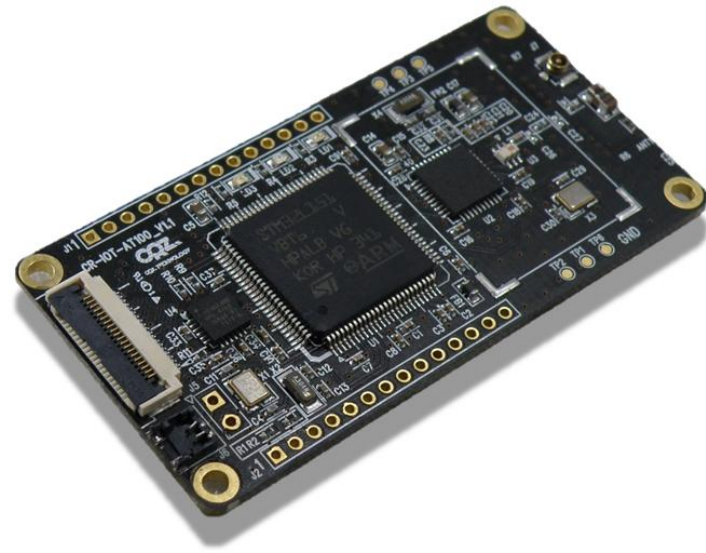
CRZ. TECHNOLOGY



**zFrog IoT Thing Board (CR-IOT-AT100)**

# About zFrog IoT Thing Board (CR-IOT-AT100) Kit

- Zigbee 2.4GHz
- On-Board 9-Axis Sensor(Gyro,Compass,Acceleration)
- Intelligent processing with low-power high-performance 32bit Cortex-M3 MCU
- Input voltage : 2.3~3.6V
- Dimensions : 60mm \* 30mm

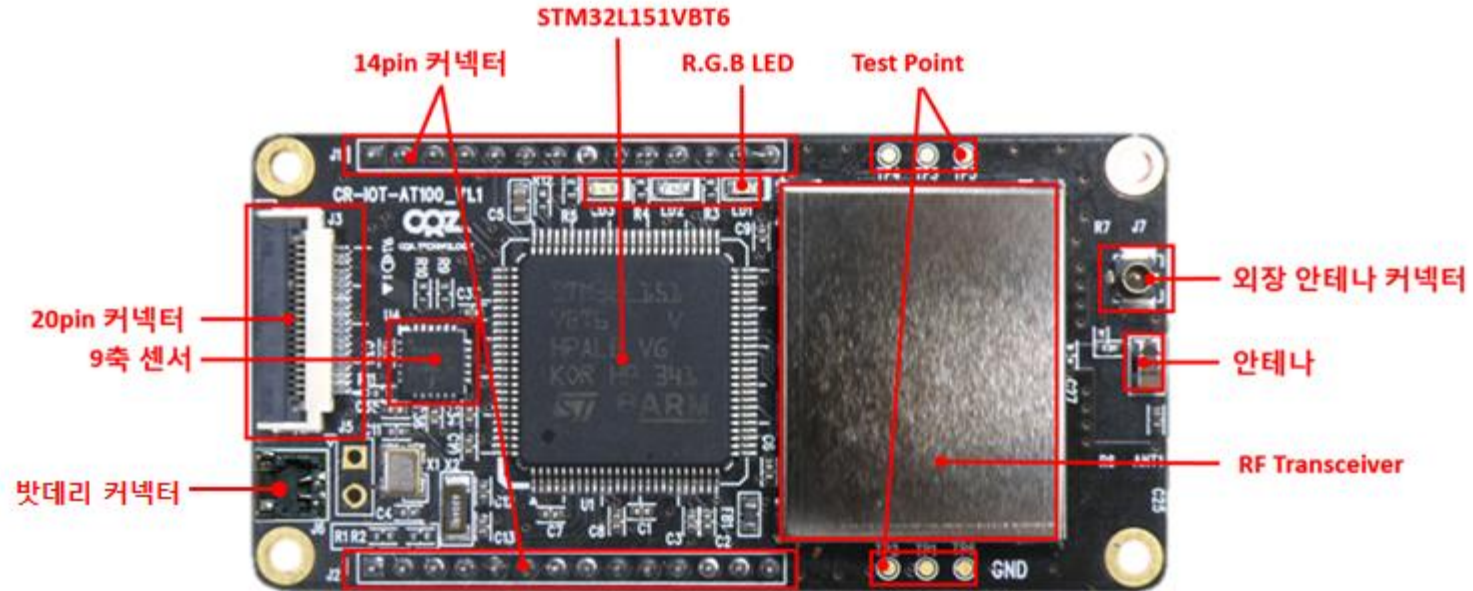


# Getting Started

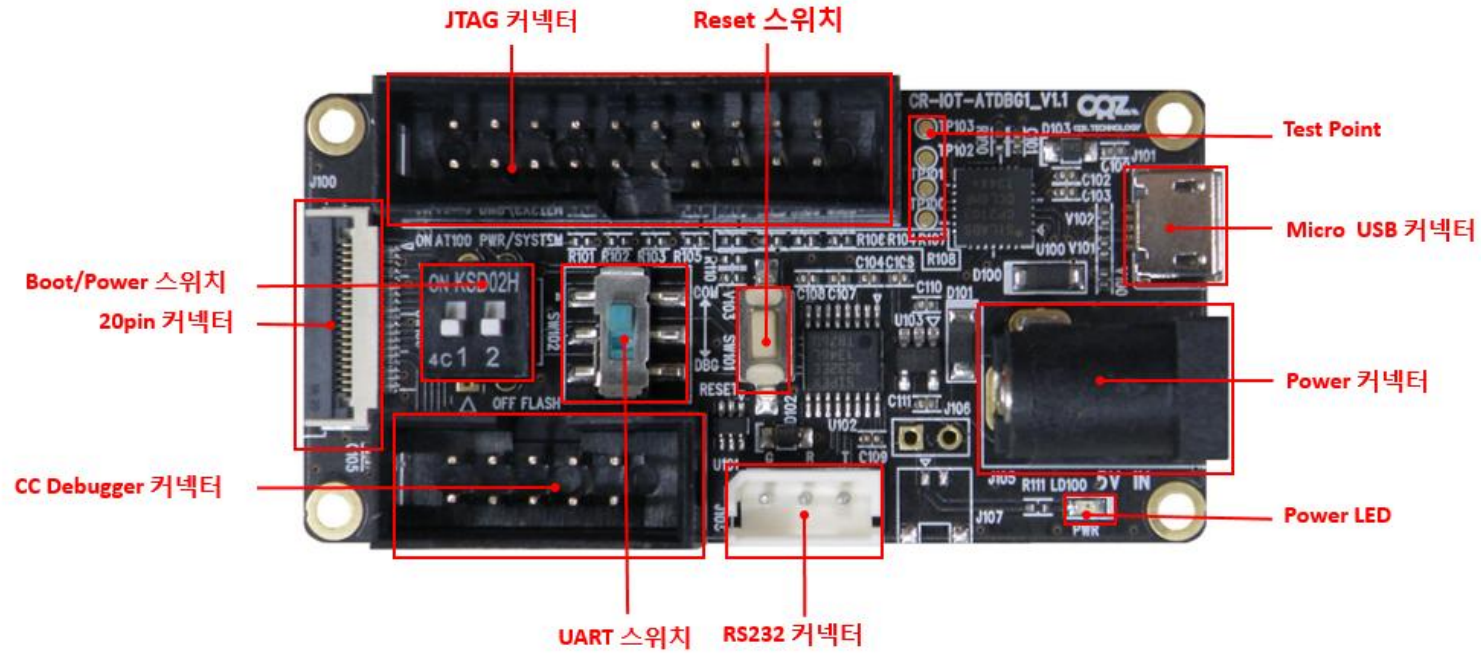
- ❖ Boards : [zFrog IoT Thing Board \(CR-IOT-AT100\)](#) , [CR-IOT-ATBG1](#), [CM-CC-DEBUGGER](#), [RS-232 모듈](#),
- ❖ Cables : [20Pin Ribbon Flex Cable](#) , [mini-usb Cable](#) , [10 Pin Flat Ribbon Cable](#)
- ❖ Power Supply : [5V /2A adapter](#)
- ❖ Documentation : Quick Start Guide (this document)



# Get to Know the zFrog IoT Thing Board (CR-IOT-AT100)



# Get to Know the IoT Thing Debug Board (CR-IOT-ATDBG1)



# Setting up the Board

1

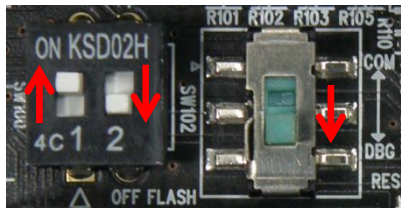
AT100 과 ATDBG1 보드 연결



2

BOOT/POWER , UART 스위치 설정

ATDBG1 보드의 Power/Boot 스위치와 UART 스위치를 다음과 같이 설정합니다



3

Power 연결

5V/2A 어댑터를 ATDBG1 보드에 연결합니다. 전원이 정상적으로 연결되면 Power LED가 켜집니다.

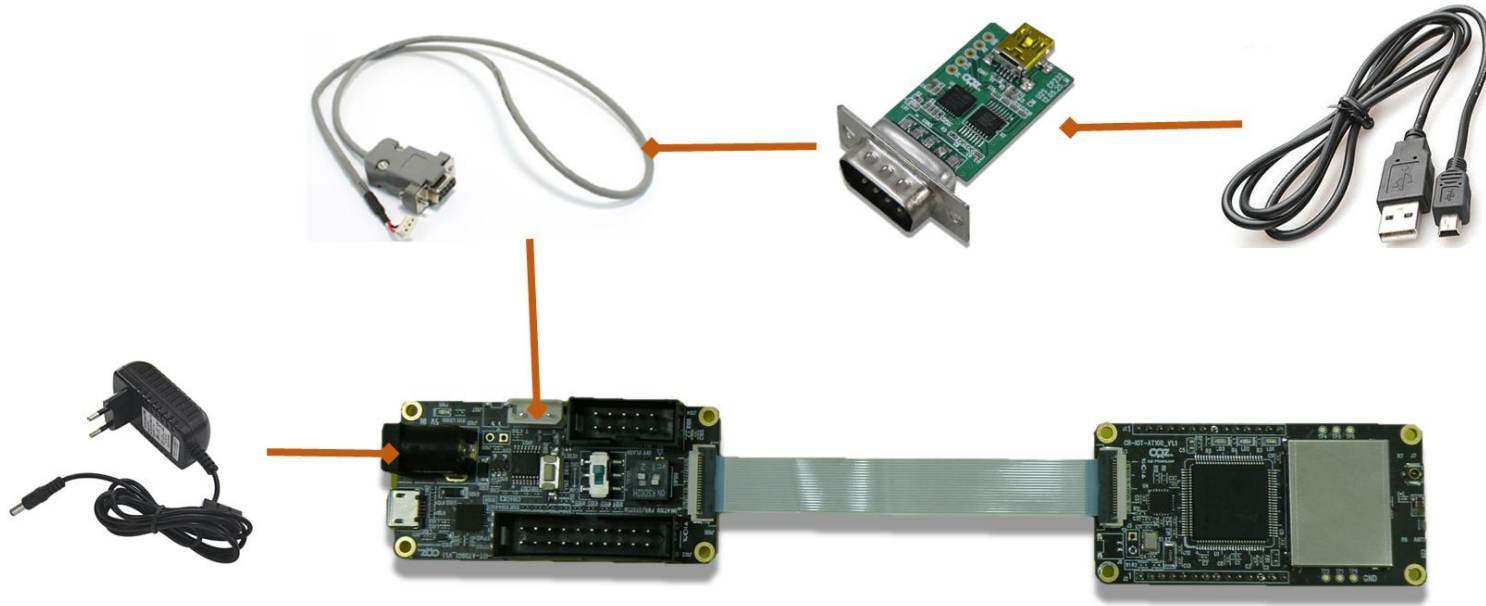


# Setting up the Board

4

## 3Pin RS232 보드 연결

아래와 같이 ATDBG1 보드의 RS232 커넥터에 RS232모듈을 장착하여 컴퓨터에 연결 한 후 Reset 스위치를 누릅니다.



# Setting up the Board

5

## 디버깅 메시지 확인

터미널 프로그램을 연결하여 다음과 같은 디버깅 메시지를 확인하면 정상동작을 하는 것입니다.

```
-----  
Press menu key  
-----  
0> System Information  
-----  
1> LED Test  
2> MPU 9150 9 Axis Sensor Test  
-----  
3> Ambient LightL (BH17) Sensor Test  
4> Temp & Humidity (HTU21) Sensor Test  
-----  
5> Actuator Test  
6> Actuator Test - ZigBee Comm  
-----  
x> quit
```





# Related Guide

- ❖ [적외선 감지 센서와 zFrog IoT Thing Board\(CR-IOT-AT100\) 이용한 침입 감지 시스템](#)
- ❖ [zFrog IoT Thing Board ZigBee 통신 Test Guide](#)
- ❖ [zFrog IoT Thing Board \(CR-IOT-AT100\) Image Write Guide](#)





For more information , visit  
<http://www.mangoboard.com>  
<http://cafe.naver.com/embeddedcrazyboys>