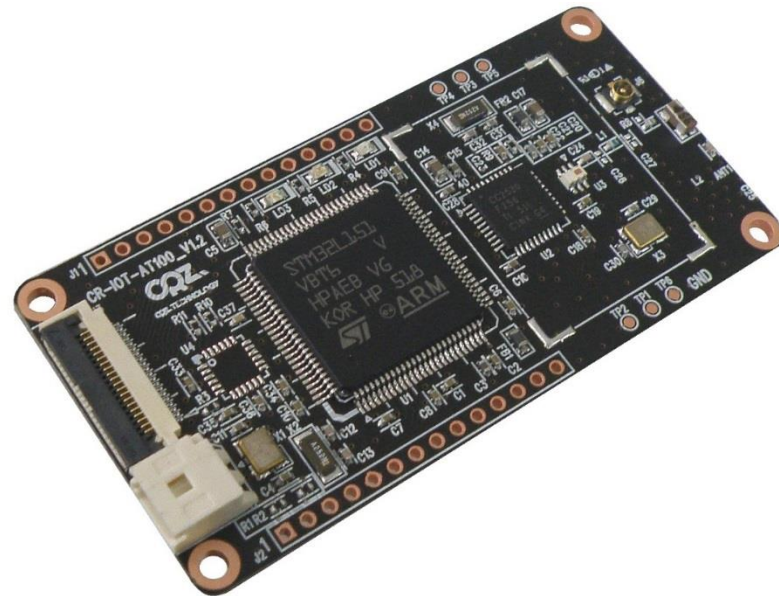


# Quick Start Guide



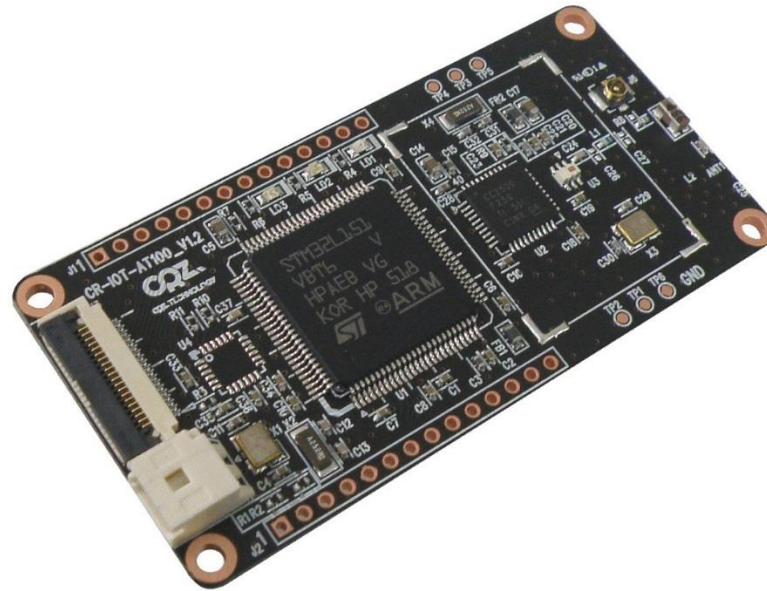
**zFrog IoT Thing Board (CR-IOT-AT101)**

**CORZ.**

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# About zFrog IoT Thing Board (CR-IOT-AT101) Kit

- On-Board Zigbee 2.4GHz
- STM32L0 CPU
- Intelligent processing with low-power high-performance 32bit Cortex-M3 MCU
- Input voltage : 2.3~3.6V
- Dimensions : 60mm \* 30mm



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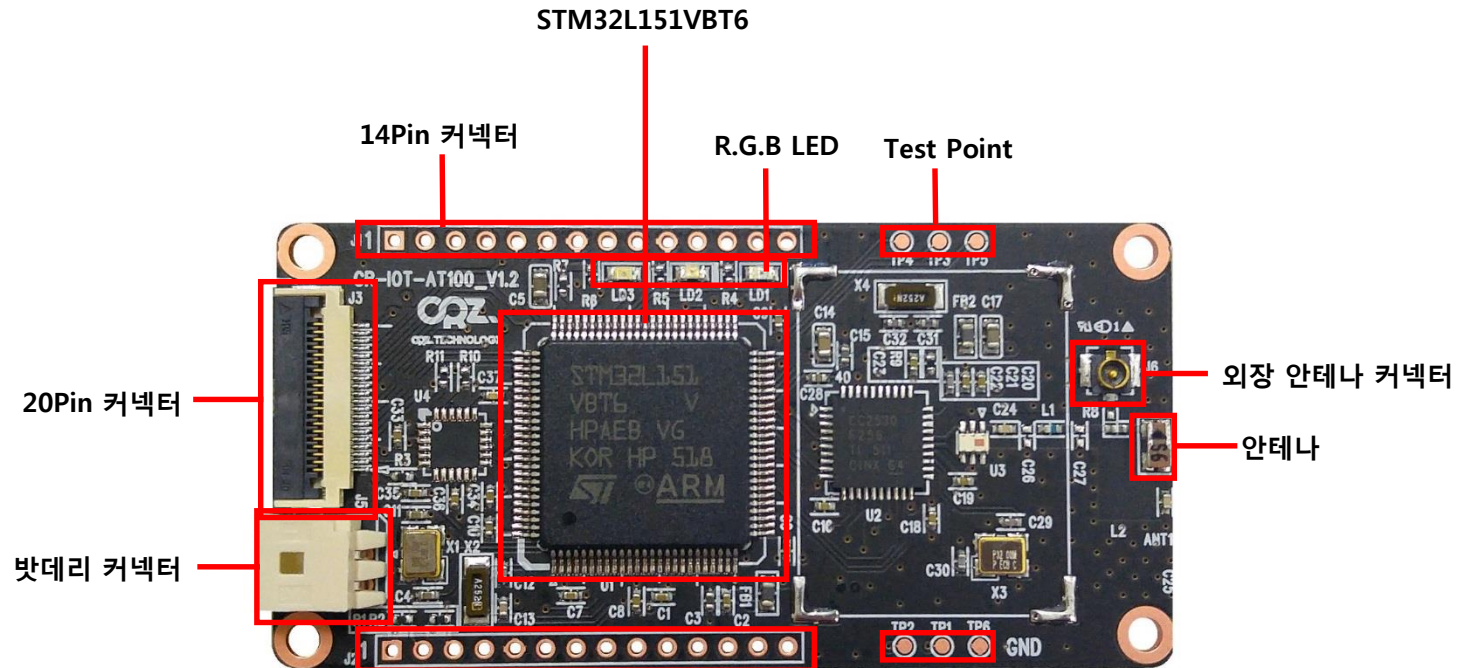
# Getting Started

- ❖ Boards : zFrog IoT Thing Board (CR-IOT-AT101) , 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)



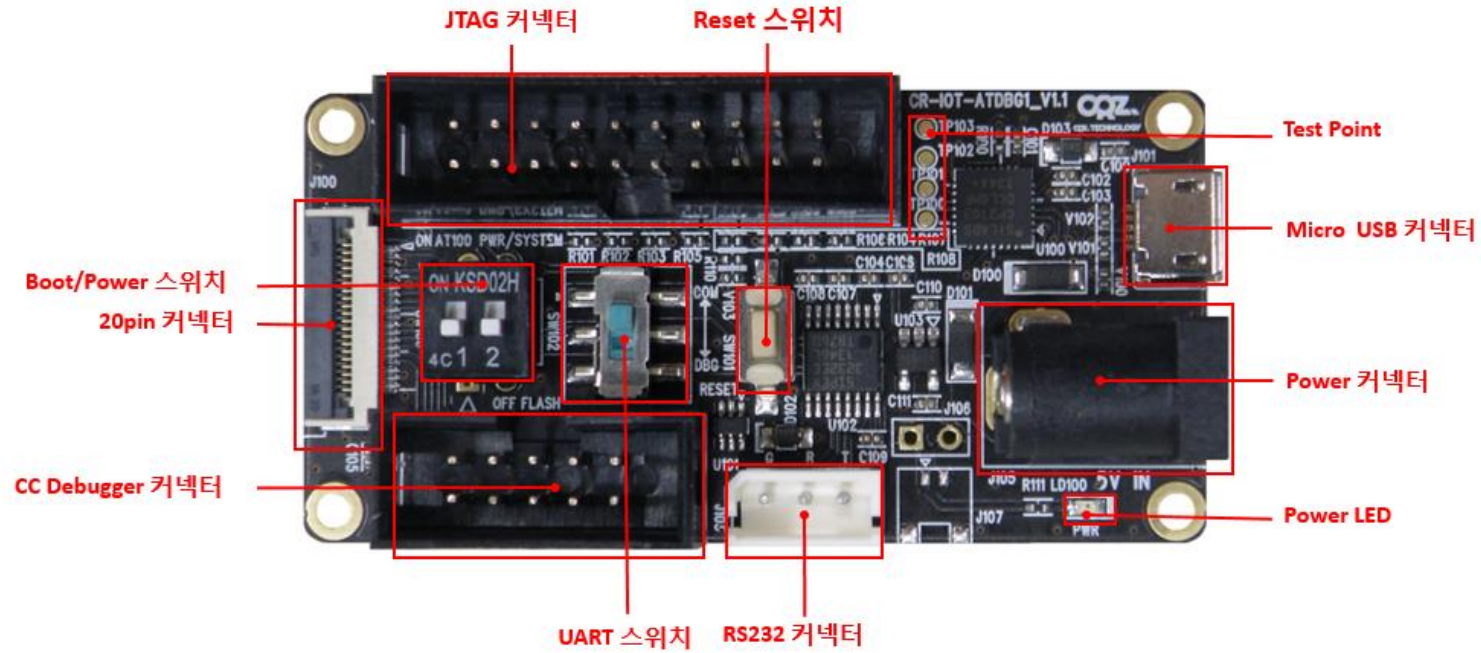
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# Get to Know the zFrog IoT Thing Board (CR-IOT-AT101)



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



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# Setting up the Board

1

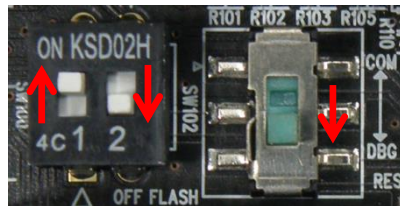
AT101 과 ATDBG1 보드 연결



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.



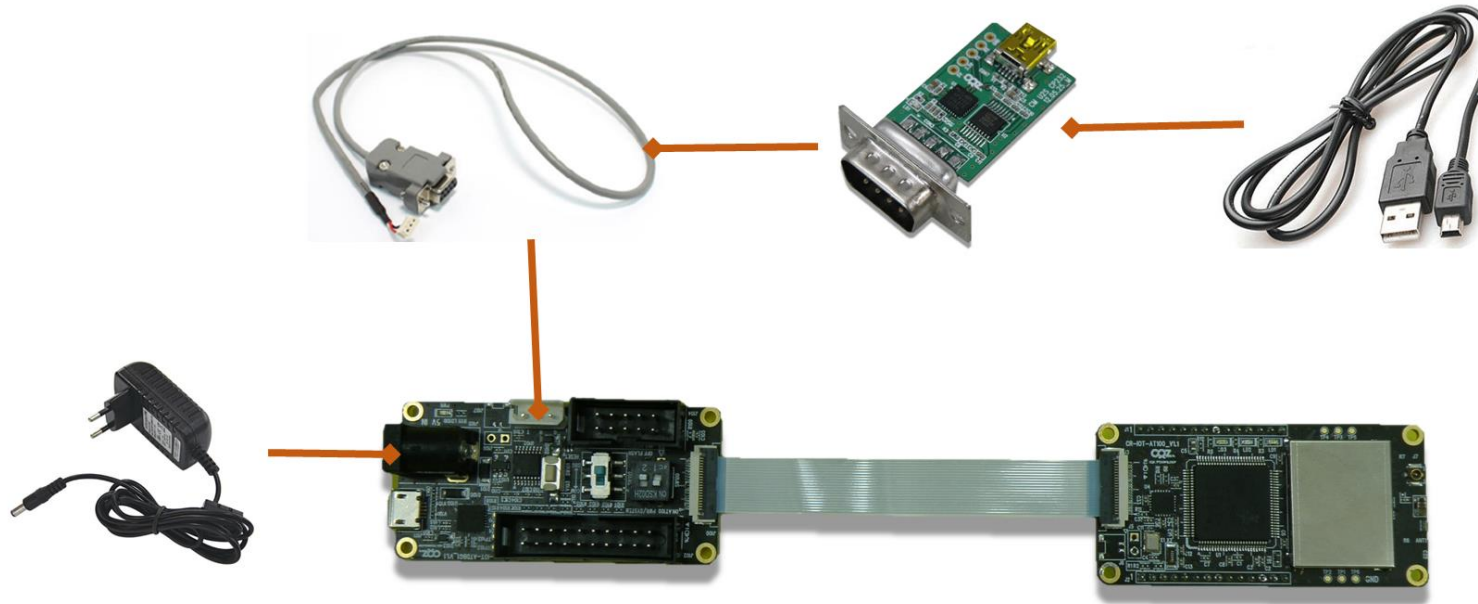
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# Setting up the Board

4

## 3Pin RS232 보드 연결

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



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# 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
```



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# Related Guide

❖ [IoT Thing Board Tutorial](#)



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