

Running Wii Motion Plus on RoBoard



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Overview

- ▶ Use RoBoard to read Wii Motion Plus.



- ▶ The following will explain how to connect Wii Motion Plus to RoBoard.

Outline

- ▶ Pin Definition of Wii connector
 - ▶ Connect Wii Motion Plus to RB-110
 - ▶ How to work on RB-100/RB-100RD
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Pin Definition of Wii connector



Pin Definition of Wii connector

▶ Pin function of Wii connector



Pin #	Function
1	V _{cc} (3.3V)
2	Device Detect
3	SDA
4	SCL
5	Unused
6	GND

Connect Wii Motion Plus to RB-110

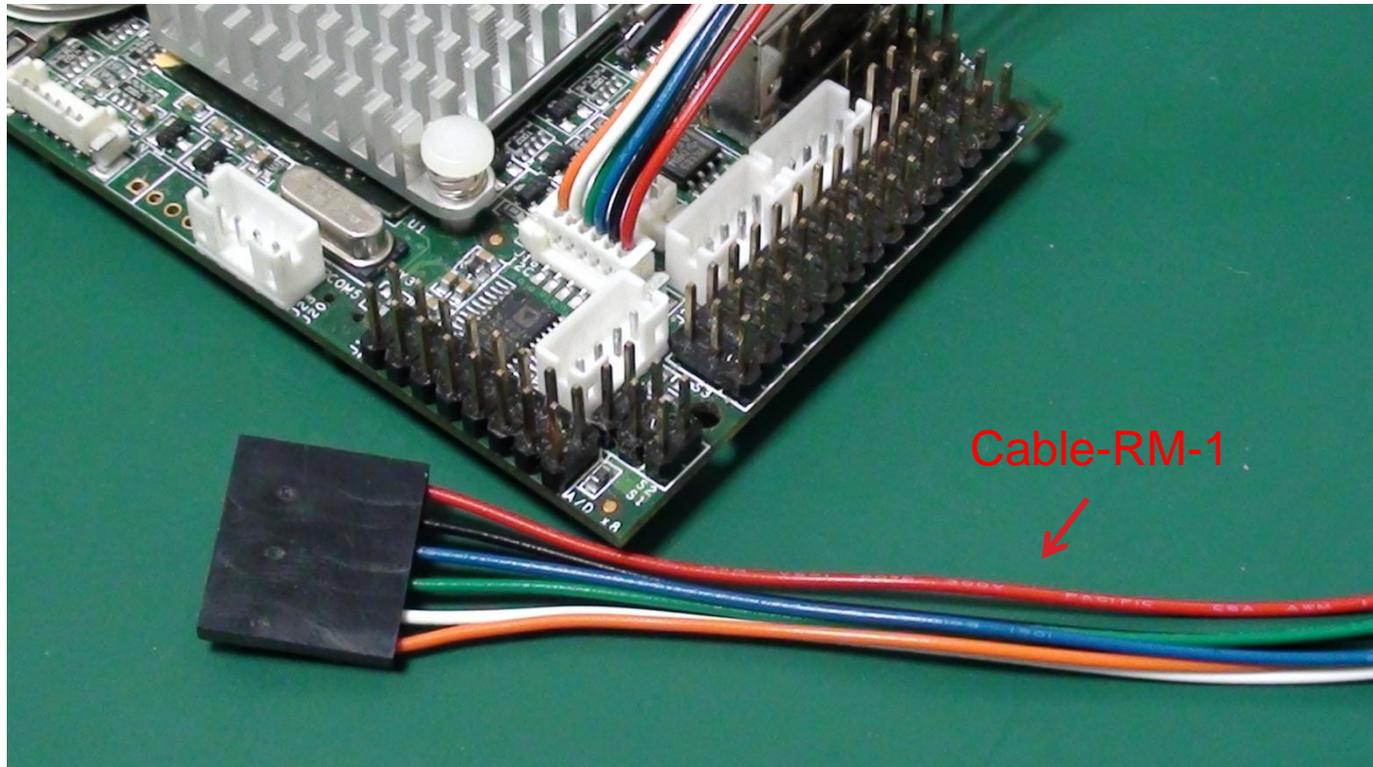


How to?



Connect Step 1.

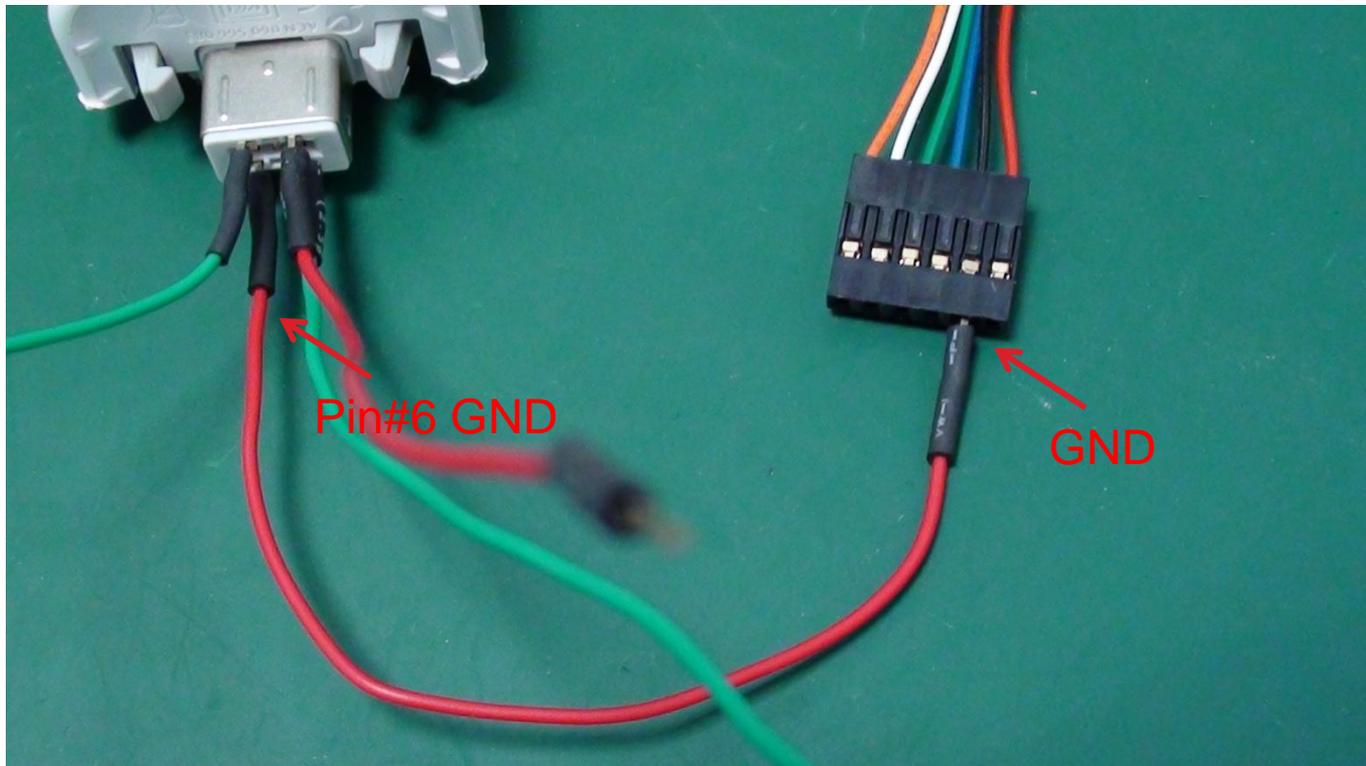
- ▶ Plug a **Cable-RM-1** on I²C connector of RB-110.



Note: Cable-RM-1 is the cable from every RoBoard Module (e.g., RM-G144 or RM-G146) Kit.

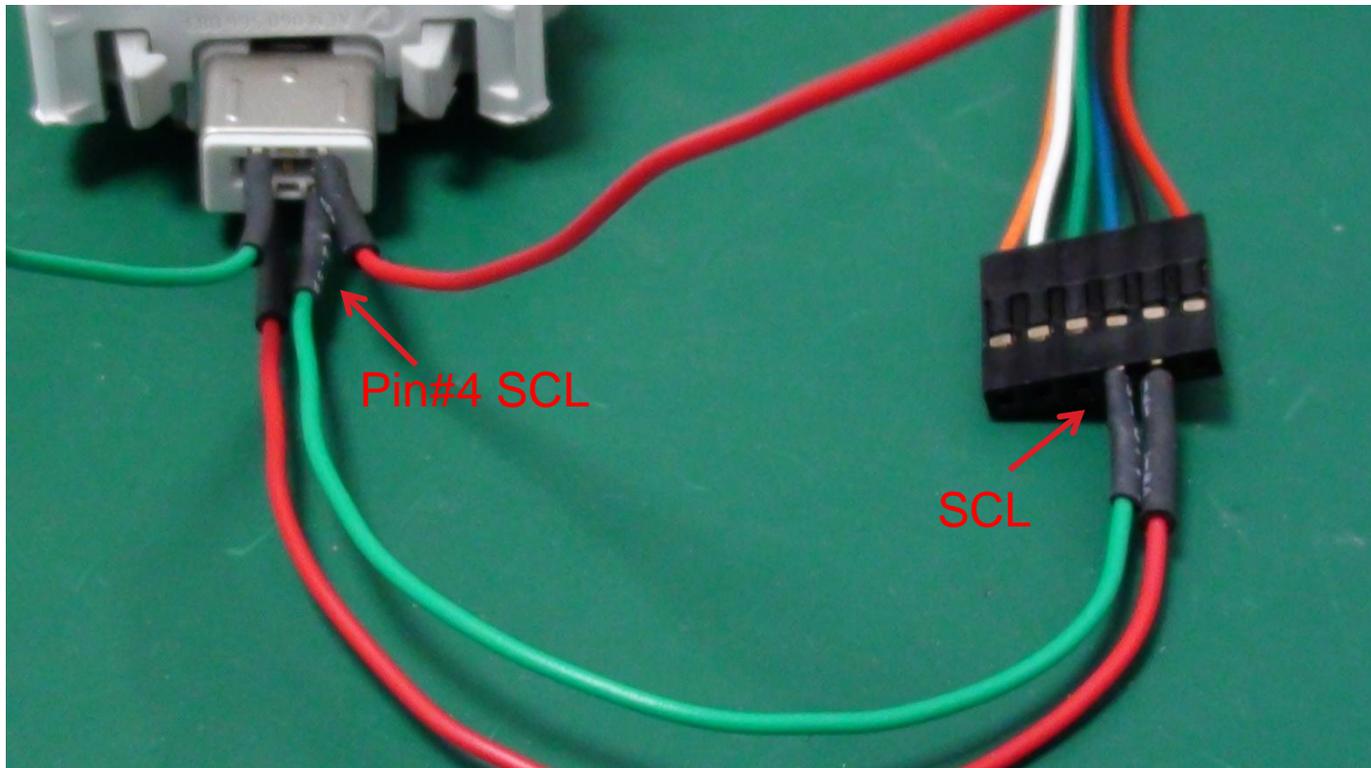
Connect Step 2.

- ▶ Connect **Pin#6 GND** to the **GND** pin of RoBoard I²C connector (i.e., black line of **Cable-RM-1**).



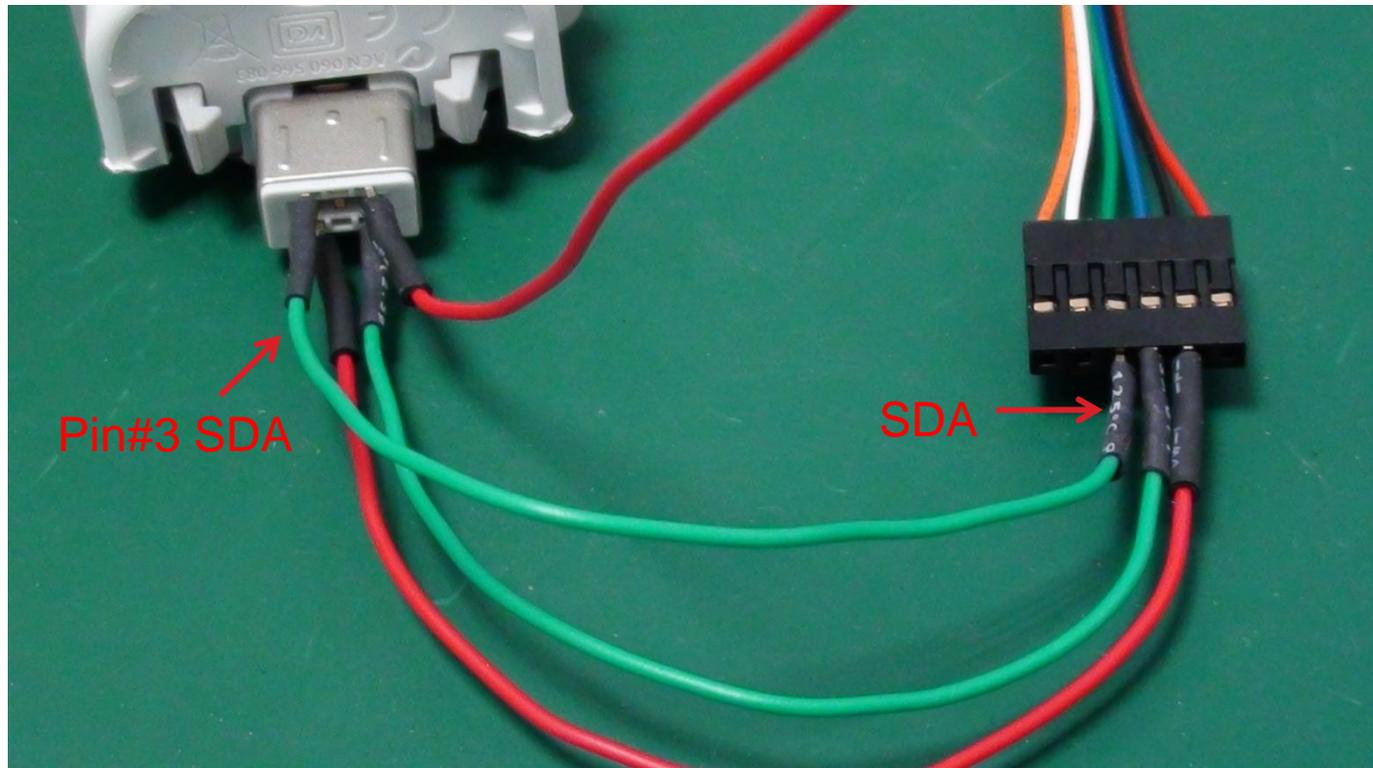
Connect Step 3.

- ▶ Connect **Pin#4 SCL** to the **SCL** pin of RoBoard I²C connector (i.e., blue line of **Cable-RM-1**).



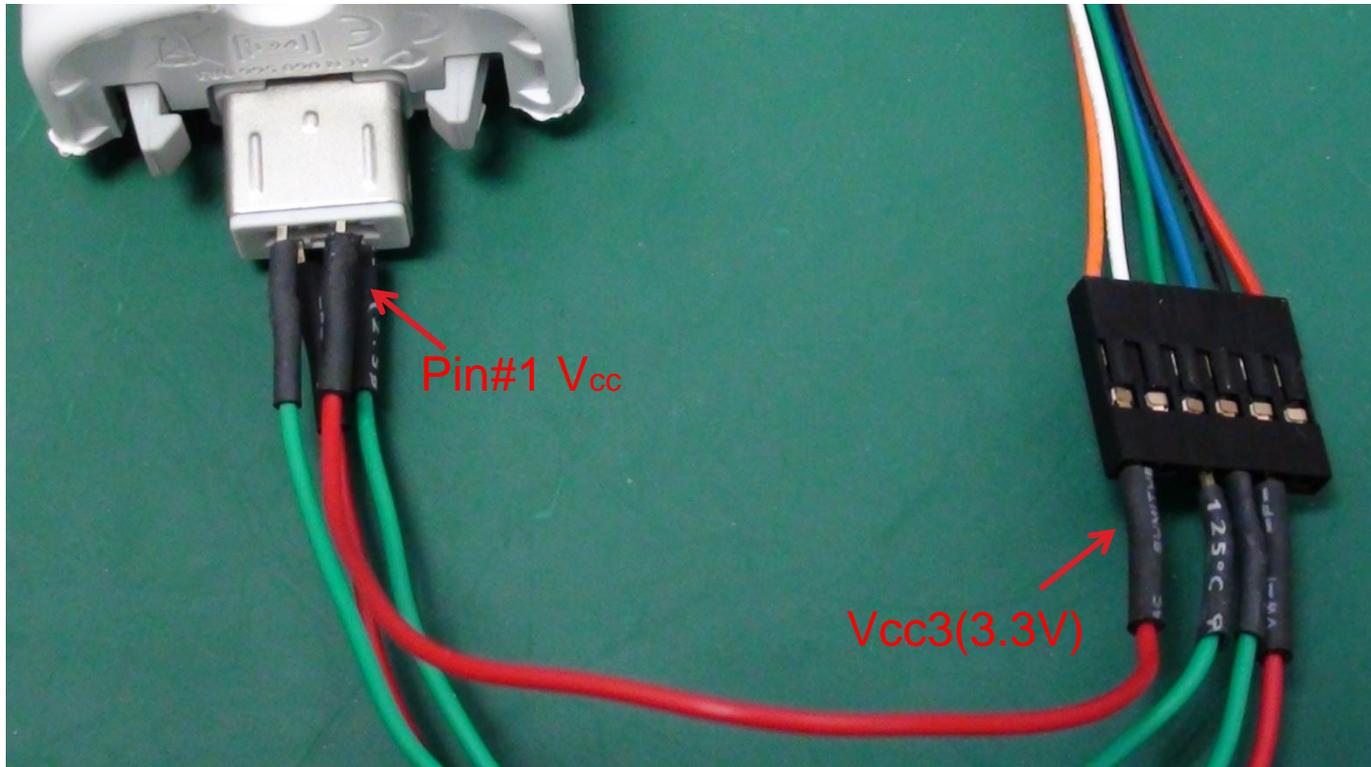
Connect Step 4.

- ▶ Connect **Pin#3 SDA** to the **SDA** pin of RoBoard I²C connector (i.e., green line of **Cable-RM-1**).



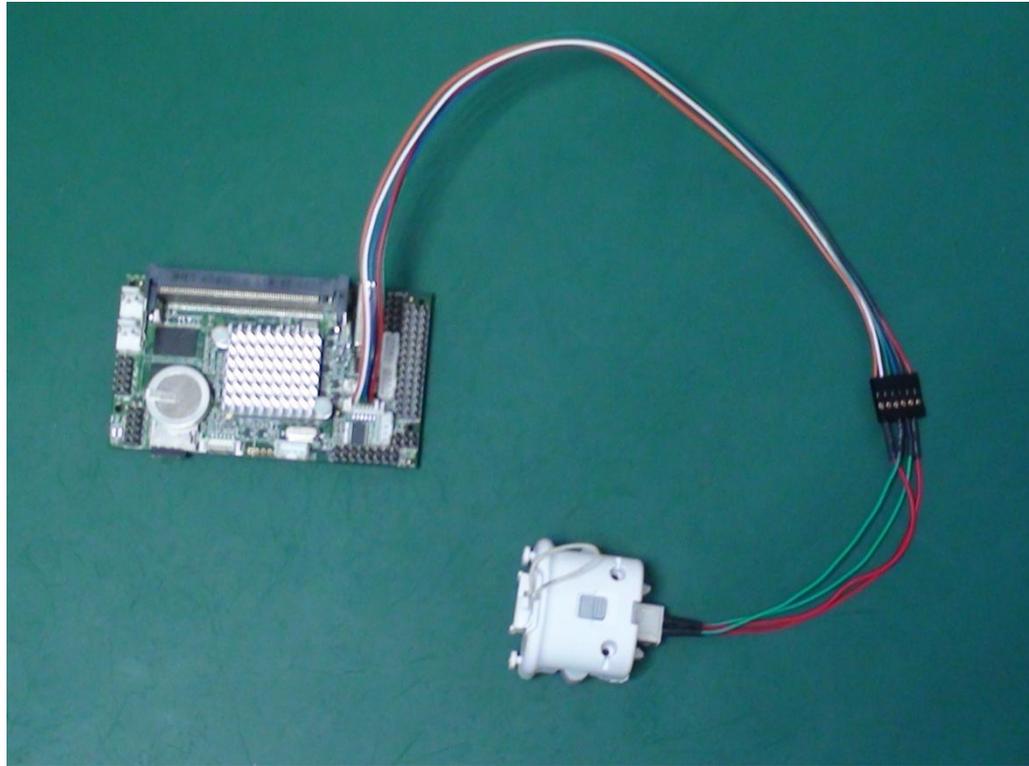
Connect Step 5.

- ▶ Connect **Pin#1 V_{cc}** to the **V_{cc3}** pin of RoBoard I²C connector (i.e., orange line of **Cable-RM-1**).



Connect Completed

- ▶ Now you connect **Wii Motion Plus** to **RoBoard RB-110** successfully.



How to work on RB-100/RB-100RD

- ▶ RB-100 & RB-100RD have no 3.3V output (but have 5V output), so you need a 5V→3.3V level-shifter to supply Wii Motion Plus.
- Note: We have tried to directly input 5V to Wii Motion Plus's Vcc, and it works fine. But we still recommend that you give 3.3V input for safety.



The Heart of Robotics

Thank you

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