NSP2340A01G-TB
User Guide

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For additional information or questions, please contact: Nuvoton Technology Corporation.

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1. Overview

NSP2340A01G-TB is a tiny demo board for NSP2080A01G /2170A01G /2340A01G series.

2. PCB Image and Placement

The Figure 1 and Figure 2 show the PCB images of NSP2340A01G-TB.

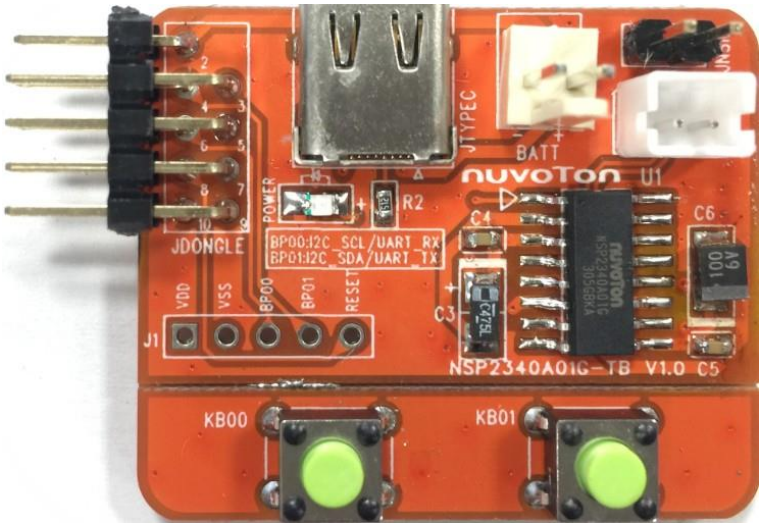


Figure 1. The Top Side

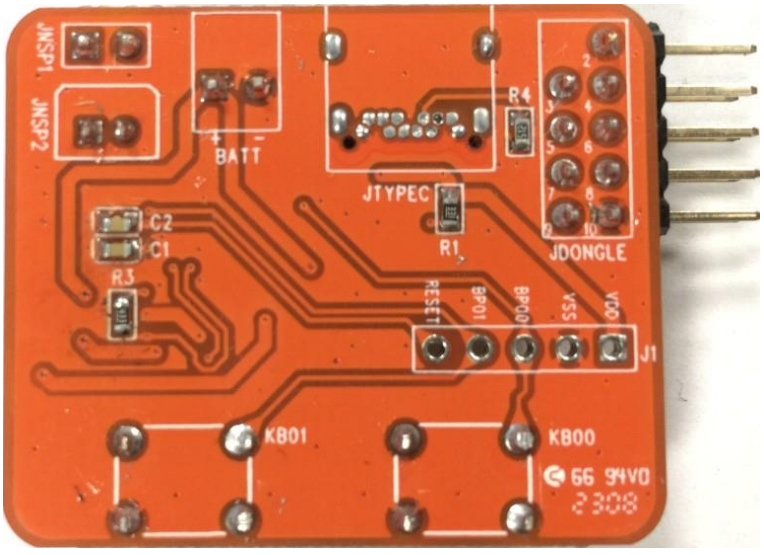


Figure 2. The Bottom Side

The Figure 3 and Figure 4 show the PCB placement of NSP2340A01G-TB.

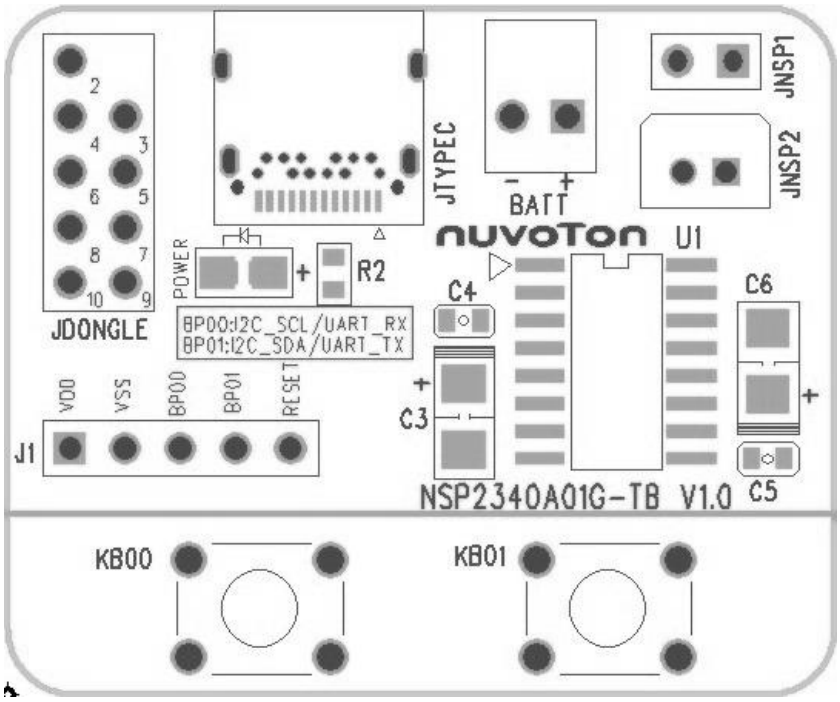


Figure 3. The Top Placement

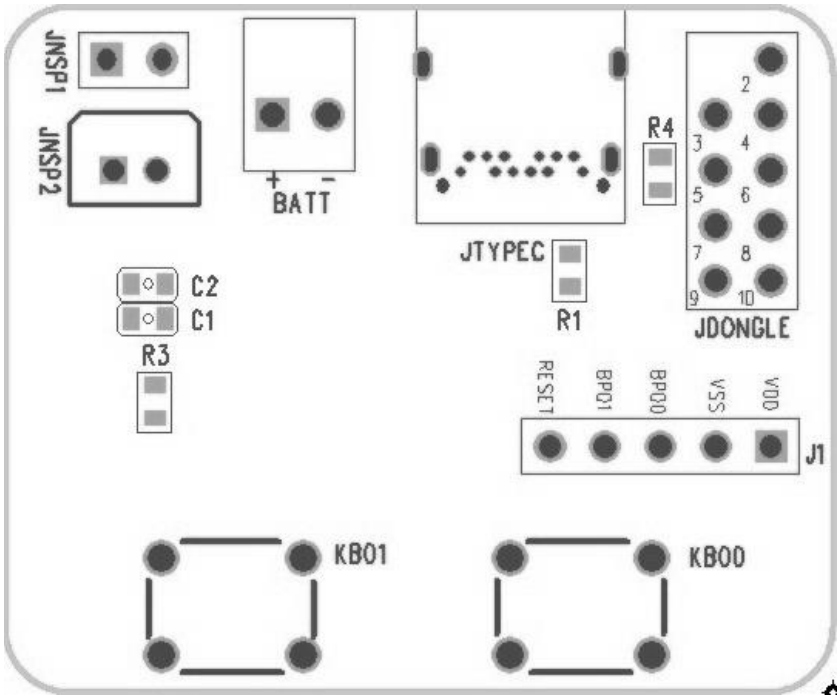


Figure 4. The Bottom Placement

3. Description

- BATT：Power supply input pin. The operating voltage is 2.2V ~ 5.5V.
- JTYPEC：Type-C interface as the power supply of NSP2340A01G.
- JNSP1：Speaker output. (It is 2.54mm pinhole.)
- JNSP2：Speaker output. (It is 2.0mm pinhole.)
- C1, C4, C5：0.1μF
- C2：Reset de-bounce capacitor. (0.1μF, it can be omitted.)
- C3：4.7μF
- C6：100μF
- R3：43KΩ
- R2, R4：5.1KΩ
- R1：330Ω (The resistor needs to be removed when measuring sleep current.)
- POWER：Power LED
- KB00, KB01：KB00 connect to BP00, KB01 connect to BP01.
- U1：NSP2340A01G
- JDONGLE：Download the .obj file by NSP Writer.

	3 NC	5 NC	7 NC	9 NC
2 VDD	4 BP01	6 BP00	8 /RESET	10 VSS

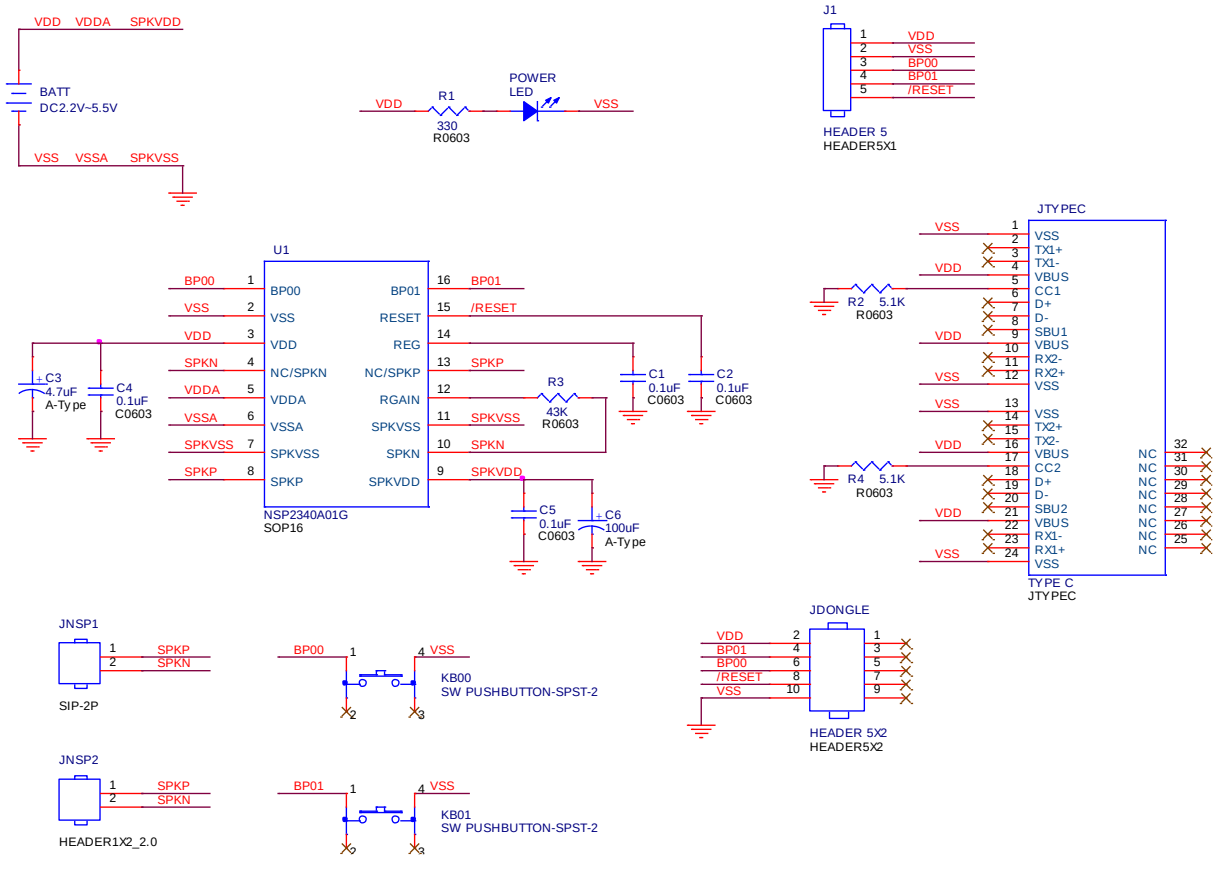
- J1：

1 VDD	2 VSS	3 BP00	4 BP01	5 /RESET

4. NSP Writer connect to NSP2340A01G-TB

NSP2340A01G-TB can be controlled through NSP Writer. The connection between the NSP Writer and the board is shown as below.

5. Schematic



6. Revision History

Version	Date	Substantial Changes	Page
1.0	March 2023	Initial Release	All

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