

# SmartIMU BOM

| Name      | Type      | Designator  | Value      |
|-----------|-----------|---|------------|
| Resistor  | 0603      | R1, R2, R14, R15  | 22R        |
|           | 0603      | R7, R8, R9, R10, R11, R13   | 100R       |
|           | 0603      | R21, R22, R23   | 680R       |
|           | 0603      | R3, R4  | 1K         |
|           | 0603      | R12   | 1.5K       |
|           | 0603      | R18, R19  | 4.7K       |
|           | 0603      | R5, R6, R16, R17, R20   | 10K        |
| Capacitor | 0603      | C11, C12  | 10pF       |
|           | 0603      | C8  | 22nF       |
|           | 0603      | C19   | 10nF       |
|           | 0603      | C1, C2, C3, C4, C5, C7, C9, C13, C14, C15, C16, C17, C18, C20, C21, C22 | 0.1uF      |
|           | 0603      | C6  | 1uF        |
|           | TAN0805   | C10   | 2.2uF      |
| LED       | 0603      | D1  | White      |
|           | 0603      | D2  | Yellow     |
|           | 0603      | D3  | Red        |
|           | 0603      | D4  | Green      |
|           | 0603      | D5  | Blue       |
| IC        | LQFP64    | STM32   | F412RE     |
|           | LQFP48    | STM32J  | F072C8     |
|           | QFN24     | MPU   | MPU9250    |
|           | LGA10     | LPS   | LPS22HB    |
|           | SON8      | W25Q  | W25Q128FV  |
|           | SOT23-5   | RT  | RT9193-3.3 |
| Switch    | TACT      | KEY   | 3.5x3.5    |
|           | SPDT      | PW  | 2.8x6.6    |
| USB       | Micro USB | USB, jUSB   | Micro USB  |
| Crystal   | XTAL2520  | XT  | 16MHz      |

# SmartIMU SHOP

| 店家     | 價格   | 數量 | 匯率 | 台幣   | 連結  |
|--------|------|----|----|------|---|
|        | 0.01 | 4  | 5  | 0.2  |   |
|        | 0.01 | 6  | 5  | 0.3  |   |
|        | 0.01 | 3  | 5  | 0.15 |   |
|        | 0.01 | 2  | 5  | 0.1  |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 2  | 5  | 0.1  |   |
|        | 0.01 | 5  | 5  | 0.25 |   |
|        | 0.01 | 2  | 5  | 0.1  |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 16 | 5  | 0.8  |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
|        | 0.01 | 1  | 5  | 0.05 |   |
| Mouser | 338  | 1  | 1  | 338  | <a href="http://www.mouser.tw/Search/ProductDetail.aspx?R=STM32">http://www.mouser.tw/Search/ProductDetail.aspx?R=STM32</a>               |
| 华东小舟   | 8    | 1  | 5  | 40   | <a href="https://item.taobao.com/item.htm?spm=a1z09.2.0.0.0ZMYSx">https://item.taobao.com/item.htm?spm=a1z09.2.0.0.0ZMYSx</a>             |
| 华维顿    | 13.5 | 1  | 5  | 67.5 | <a href="https://world.taobao.com/item/37301455396.htm?spm=a312a">https://world.taobao.com/item/37301455396.htm?spm=a312a</a>             |
| Mouser | 125  | 1  | 1  | 125  | <a href="http://www.mouser.tw/ProductDetail/STMicroelectronics/LPS">http://www.mouser.tw/ProductDetail/STMicroelectronics/LPS</a>         |
| 文鑫伟数码  | 5.8  | 1  | 5  | 29   | <a href="https://detail.tmall.com/item.htm?id=44927050812&amp;toSite=m">https://detail.tmall.com/item.htm?id=44927050812&amp;toSite=m</a> |
| Mouser | 40   | 1  | 1  | 40   | <a href="http://www.mouser.tw/Search/ProductDetail.aspx?R=XC6220">http://www.mouser.tw/Search/ProductDetail.aspx?R=XC6220</a>             |
|        | 1    | 1  | 5  | 5    |   |
|        | 1    | 1  | 5  | 5    |   |
|        | 1    | 2  | 5  | 10   |   |
| 华瑞纳电子  | 1    | 1  | 5  | 5    | <a href="https://item.taobao.com/item.htm?spm=a1z09.2.0.0.ECXJhK8">https://item.taobao.com/item.htm?spm=a1z09.2.0.0.ECXJhK8</a>           |

元件合計

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PCB ~ NTD14