BOM Sheet IoT device ver. 2

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1. **Transceiver:** Una MKR mini

Distributer: IC shop Price: 819NT

1. **Antenna:** Any Sigfox compatible antenna

Distributer: IC shop Price: 250NT

1. **PCB:** 4 layer, 10cm\*6cm

Distributer: Jiepei (China) Price: 120NT

1. **Components**

Distributer: Price: 200NT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component | Packaging | Value | Qty | Remarks |
| C | 0805 | 15p | 1 |  |
| C | 0805 | 20p | 2 |  |
| C | 0805 | 100n | 9 |  |
| C | 0805 | 220n | 1 |  |
| C | 2010 | 1u | 2 | Tantalum capacitor |
| C | 2010 | 10u | 4 | Tantalum capacitor |
| L | 1206 | 1u | 1 |  |
| LED | 0805 |  | 1 |  |
| R | 1206 | 1k | 1 |  |
| R | 1206 | 1M | 1 | 5% or lower |
| R | 1206 | 10k | 3 | 5% or lower |
| R | 1206 | 150 | 2 | 5% or lower |
| R | 1206 | 200k | 1 | 0.5% or lower |
| R | 1206 | 510 | 1 | 5% or lower |
| R | 1206 | 3.3k | 2 | 5% or lower |
| R | 1206 | 30m | 1 | 1% or lower 30m-50m ok |
| Oscillator | HC-49S | 8M | 1 |  |
| Oscillator | Cylindrical | 32.768k | 1 | 1 mil footprint |
| 2pin connector | JST PH2.0 2P |  | 7 | male |
| 2pin connector | JST PH2.0 2P |  | 7 | female |
| Screw | M3 |  | 8 | For housing |
| CR123A |  | 1200mAh | 2 | Battery |
| Bat. Case |  |  | 2 |  |
| STC3100 |  |  | 1 | Battery detection chip |
| Stm32f103c8t6 |  |  | 1 | MCU |

Total Price per device: 1389NT