

# Bill Of Materials for TP 1. Datalogger for IoT

|                       |                                     |
|-----------------------|-------------------------------------|
| Design Title          | TP 1. Datalogger for IoT            |
| Author                | Óscar.M, Pablo.V, Ruben.S, Andrés.M |
| Document Number       | 1                                   |
| Revision              | 1                                   |
| Board                 | PCB2-Sensors                        |
| Design Created        | miércoles, 21 de septiembre de 2022 |
| Design Last Modified  | miércoles, 23 de noviembre de 2022  |
| Total Parts In Design | 56                                  |

## Notes

Falta el IVA (21%)

### 4 Modules

| <u>Quantity</u> | <u>References</u> | <u>Value</u>  | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|---------------|-------------------|------------------|
| 1               | M1                | GPS_TEL09132  | 3769990           | 17,75€           |
| 1               | M2                | BME680_MODULE | 3932094           | 22,41€           |
| 1               | M3                | SEN0134       | 2946118           | 7,44€            |
| 1               | M4                | GP2Y1010AU0F  | 9707956           | 9,50€            |

Sub-totals: 57,10€

### 6 Capacitors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| 3               | C1,C4-C5          | 1uF          | 2280849           | 0,14€            |
| 2               | C2-C3             | 10uF         | 2320887           | 0,83€            |
| 1               | C6                | 220uF        | 2494472           | 0,79€            |

Sub-totals: 2,86€

### 11 Resistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Unit Cost</u> |
|-----------------|-------------------|--------------|-------------------|------------------|
| 6               | R1-R3,R5-R6,R10   | 10k          | 1174160           | 0,01€            |
| 1               | R4                | 6k8          | 1469831           | 0,04€            |
| 1               | R7                | 470R         | 9233334           | 0,01€            |
| 1               | R8                | 820R         | 1576627           | 0,08€            |
| 1               | R9                | 1k2          | 3133435           | 0,04€            |

|                              |   |                |                   |                  |
|------------------------------|---|----------------|-------------------|------------------|
| 1                            | R11   | 150R           | 9240896           | 0,05€            |
| Sub-totals:                  |   |                |                   | 0,26€            |
| <b>3 Integrated Circuits</b> |   |                |                   |                  |
| <u>Quantity</u>              | <u>References</u>   | <u>Value</u>   | <u>Stock Code</u> | <u>Unit Cost</u> |
| 1                            | U1  | XC9141B50DMR-G | 3535653           | 1,12€            |
| 1                            | U2  | MS8607-02BA01  | 2748850           | 7,11€            |
| 1                            | U3  | MCP3004-I/SL   | 1852016           | 2,78€            |
| Sub-totals:                  |   |                |                   | 11,01€           |
| <b>4 Transistors</b>         |   |                |                   |                  |
| <u>Quantity</u>              | <u>References</u>   | <u>Value</u>   | <u>Stock Code</u> | <u>Unit Cost</u> |
| 3                            | Q1-Q2, Q4   | MMBT3904-7-F   | 1773602           | 0,13€            |
| 1                            | Q3  | NDS332P        | 1471069           | 0,41€            |
| Sub-totals:                  |   |                |                   | 0,80€            |
| <b>0 Diodes</b>              |   |                |                   |                  |
| <u>Quantity</u>              | <u>References</u>   | <u>Value</u>   | <u>Stock Code</u> | <u>Unit Cost</u> |
| Sub-totals:                  |   |                |                   | 0,00€            |
| <b>28 Miscellaneous</b>      |   |                |                   |                  |
| <u>Quantity</u>              | <u>References</u>   | <u>Value</u>   | <u>Stock Code</u> | <u>Unit Cost</u> |
| 24                           | 3V3, ADC_CS, BME_CS, CH0-CH3, DUST_CTRL, DUST_ON, DUST_VO, GAS_1V4CTRL, GAS_5VCTRL, GAS_IN, GND, GPS_PPS, GPS_RX, GPS_TX, ICE_MISO, ICE_MOSI, ICE_SCK, SCL, SDA, STUP_5V, STUP_CE | PIN            |                   |                  |
| 2                            | J1-J2   | M20-6102045    | 1569230           | 5,51€            |
| 1                            | J3  | ZHR-6          | 3357570           | 0,10€            |
| 1                            | L1  | LQH5BPN4R7NT0L | 2219307           | 0,31€            |
| Sub-totals:                  |   |                |                   | 11,42€           |
| Totals:                      |   |                |                   | 83,45€           |

