

## Bill Of Materials for Taller Proyectos 1. Datalogger

<b>Design Title</b>	Taller Proyectos 1. Datalogger
<b>Author</b>	G4: Andrés, Iván, Lucía, Víctor R, Alonso
<b>Document Number</b>	1
<b>Revision</b>	1
<b>Board</b>	PCB0-Power-USB
<b>Design Created</b>	miércoles, 21 de septiembre de 2022
<b>Design Last Modified</b>	viernes, 7 de noviembre de 2025
<b>Total Parts In Design</b>	61

### Notes

Falta el IVA (21%)

#### 9 Capacitors

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
2	C20, C26	100nF	.	0805	€0,10
4	C21-C24	22uF	.	0805	€0,09
1	C25	1uF	.	0805	€0,12
2	C27-C28	33pF	.	0805	€0,10

#### Sub-totals:

€0,88

#### 16 Resistors

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
1	R15	220R	.	0805	€0,09
3	R16, R27-R28	2k2	.	0805	€0,09
1	R17	71.5k	.	0805	€0,09
4	R18, R23-R24, R30	10k	.	0805	€0,09
2	R19-R20	0R1	.	0805	€0,09
2	R21-R22	470R	.	0805	€0,09
2	R25-R26	680R	.	0805	€0,09
1	R29	4k7	.	0805	€0,09

#### Sub-totals:

€1,44

#### 4 Integrated Circuits

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
1	U4	MCP73831/2	Farnell 1332157	SOT23-5	€0,64
1	U5	MCP1725ADJ	Farnell 1834878	SO8	€0,66
1	U6	CY7C65213-28PVX	Farnell 2772892	SOP65P780X200-28	€1,73
1	U7	LPC1112FD20/102	Mouser 771-LPC1112FD20/1025	SO20W	€2,47

#### Sub-totals:

€5,50

#### 3 Diodes

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
2	D2-D3	KA-3022SRC-4.5SF-TR	Farnell 4665975	SOD123_K	€0,45
1	D4	KA-3022SGC-4.5SF	Farnell 1142615	SOD123_K	€1,68

#### Sub-totals:

€2,58

#### 29 Miscellaneous

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
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21	/BOOT,/HOLD,/ICE_RESET,/RESET, /SS,/WP,3V3,3V7,3V3M,3V7M,5V, GND,ICE_CLK,ICE_DONE,MISO, MOSI,RXD,SCK,TXD,USB_D+,USB_D-	PIN		PIN	€1,86
1	BAT	530480310	Digikey WM1743-ND	530480310	€2,60
1	BAT1	LIPO BAT	ampul AM9299	NULL	€3,20
1	J4	USB Mini B Molex 67503-1230	Farnell 2847248	MOLEX USB MINI B 67503-1230	€11,40
1	J11	2214S-40SG-85	Farnell 2847248	CONN-DIL40- ROUND	€0,65
1	J12	2214S-40GS-85	Farnell 2313554	CONN-DIL40- ROUND	€0,65
1	L1	MMZ1608B121C	Farnell 2800823	RESC1608X84	€0,09
1	SW1	OS102011MA1QS1	Farnell 2435103	OS102011MA1QS1	€4,55
1	X1	QT49-12.000MEEJ-B	Farnell 4200031	QT49-12.000MEEJ-B	€0,35
<b>Sub-totals:</b>					<b>€62,55</b>
<b>Totals:</b>					<b>€72,95</b>

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<b>Author</b>	G4: Andrés, Iván, Lucía, Víctor R, Alonso
<b>Document Number</b>	1
<b>Revision</b>	1
<b>Board</b>	PCB1-FPGA
<b>Design Created</b>	miércoles, 21 de septiembre de 2022
<b>Design Last Modified</b>	viernes, 7 de noviembre de 2025
<b>Total Parts In Design</b>	94

### Notes

Falta el IVA (21%)

#### 20 Capacitors

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
16	C1-C8,C11-C17,C20	100nF	.	0805	€0,10
2	C9-C10	10uF	.	0805	€0,10
2	C18-C19	22uF	.	0805	€0,09

#### Sub-totals:

**€1,98**

#### 51 Resistors

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
6	R1,R9-R10,R14,R49-R50	10k	.	0805	€0,09
2	R2,R47	33k	.	0805	€0,09
2	R3-R4	100R	.	0805	€0,09
3	R5-R7	2k2	.	0805	€0,09
1	R8	0R1	.	0805	€0,09
1	R11	12k	.	0805	€0,09
1	R12	4k7	.	0805	€0,09
1	R13	1k5	.	0805	€0,09
4	R15-R18	680R	.	0805	€0,09
9	R19,R21,R23,R28,R30,R32,R37,R39,R41	180R	.	0805	€0,09
15	R20,R22,R24-R25,R27,R29,R31,R33-R34,R36,R38,R40,R42-R43,R18B	330R	.	0805	€0,09
3	R26,R35,R44	130R	.	0805	€0,09
2	R45-R46	68R	.	0805	€0,09
1	R48	0R	.	0805	€0,09

#### Sub-totals:

**€4,59**

#### 4 Integrated Circuits

Quantity	References	Value	Stock Code	PCB Package	Unit Cost
1	U1	ICE40HX4K-TQ144	Farnell 3768754	QFP50P2200X2200X160-144N	€9,20
1	U2	IS25LP032D-JNLE	Farnell 1852016	SO8W	€2,63
1	U3	MCP1725ADJ	Farnell 3535653	SO8	€1,05
1	U5	MCSJK-3N-16-3.3-50-B	Farnell 2854288	MCSJK3N16003350B	

#### Sub-totals:

**€12,88**

5 Diodes					
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	D1	1N4448HWS	Farnell 3127174	SOD-323	€0,12
2	D2-D3	KA-3022SRC-4.5SF-TR	Farnell 4665975	SOD-323	€0,34
1	D4	KA-3022SRC-4.5SF-TR	Farnell 4665975	SOD-323	€0,45
1	D5	KA-3022SRC-4.5SF-TR	Farnell 4665975	SOD-323	€0,38
<b>Sub-totals:</b>					<b>€1,63</b>
14 Miscellaneous					
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
7	1V2, 1V2M, BLUE, GREEN, HSY, RED, VSYNC	PIN		PIN	
2	3V3, GND	PIN		PIN	€0,00
2	J1-J2	M20-6102045	Farnell 1569230	CONN-DIL40-ROUND	€5,32
1	J3	L77HDE15SD1CH4F	Farnell 2401182	L77HDE15SD1CH4F	€1,88
2	MB0-MB1	SPC20485	Farnell 1258956	CONN-SIL2	€0,46
<b>Sub-totals:</b>					<b>€13,44</b>
<b>Totals:</b>					<b>€34,52</b>

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<b>Author</b>	G4: Andrés, Iván, Lucía, Víctor R, Alonso
<b>Document Number</b>	1
<b>Revision</b>	1
<b>Board</b>	PCB2-Sensors
<b>Design Created</b>	miércoles, 21 de septiembre de 2022
<b>Design Last Modified</b>	viernes, 7 de noviembre de 2025
<b>Total Parts In Design</b>	53

### Notes

Falta el IVA (21%)

#### 5 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	M1	BME680_MODULE	Mouser BME680	BME680_MODULE	€18,39
1	M2	GP2Y1010AU0F	Farnell 9707956	GP2Y1010AU0F	€8,64
1	M3	GPS_TEL09132	Farnell 3769990	GPS_TEL0132	€17,17
1	M4	SEN0134	Farnell 2946118	SEN0134	€7,80
1	M2_ON	PIN		PIN	
<b>Sub-totals:</b>					<b>€52,00</b>

#### 6 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
3	C1-C3	1uF	.	0805	€0,12
2	C4-C5	10uF	.	0805	€0,10
1	C6	EEEFK1V221P	Farnell 9695877	EEHZZ1E331UP	€0,60
<b>Sub-totals:</b>					<b>€1,16</b>

#### 11 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
6	R1-R2, R5-R7, R11	10k	.	0805	€0,09
1	R3	6k8	.	0805	€0,09
1	R4	1k2	.	0805	€0,09
1	R8	820R	.	0805	€0,09
1	R9	470R	.	0805	€0,09
1	R10	150R	.	0805	€0,09
<b>Sub-totals:</b>					<b>€0,99</b>

#### 3 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	U1	MS8607-02BA01	Farnell 2748850	QFN_5X3_NEG	€9,20
1	U2	MCP3004	Farnell 1523365	DIL14	€2,63

1	U3	XC9141B50DMR-G	Farnell 3535653	SOT23-5	€1,05
<b>Sub-totals:</b>					<b>€12,88</b>
4 Transistors					
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
3	Q1,Q3-Q4	MMBT3904-7-F	Farnell 1773602	SOT95P230X109-3	€0,10
1	Q2	NDS332P	Farnell 1471069	SOT23	€0,52
<b>Sub-totals:</b>					<b>€0,82</b>
24 Miscellaneous					
<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
21	3V3,5V_CE,5V_M4,5V_UP,ADCCS,BMECS,CH0-CH3,EN1V4,EN5V,GND,GPS_RX,GPS_TX,ICEMISO,ICEMOSI,ICESCK,P25,SCL,SDA	PIN		PIN	
2	J1-J2	M20-6102045	Farnell 1569230	CONN-DIL40-ROUND	€5,32
1	L1	LQH5BPN4R7NT0L	Farnell 2219307	LQH5BPB100MT0L	€0,32
<b>Sub-totals:</b>					<b>€10,96</b>
<b>Totals:</b>					<b>€78,81</b>

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<b>Author</b>	G4: Andrés, Iván, Lucía, Víctor R, Alonso
<b>Document Number</b>	1
<b>Revision</b>	1
<b>Board</b>	PCB3-Wireless
<b>Design Created</b>	miércoles, 21 de septiembre de 2022
<b>Design Last Modified</b>	viernes, 7 de noviembre de 2025
<b>Total Parts In Design</b>	19

### Notes

Falta el IVA (21%)

#### 1 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	M3	LAMBDA62-8D	Farnell 2988568	LAMBDA628D	€16,59
<b>Sub-totals:</b>					<b>€16,59</b>

#### 3 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	C1	100nF	.	0805	€0,10
2	C2-C3	1nF	.	0805	
<b>Sub-totals:</b>					<b>€0,10</b>

#### 1 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
1	R1	10k	.	RESC2012X50	€0,09
<b>Sub-totals:</b>					<b>€0,09</b>

#### 14 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>PCB Package</u>	<u>Unit Cost</u>
10	3V3,GND,LBUSY,LCS,LDI01,LMISO,LMOSI,LRX,LSCK,LTX	PIN		PIN	
1	ANT1	ANT		ANTENA25-26	
2	J1-J2	M20-6102045	Farnell 1569230	CONN-DIL40-ROUND	€5,32
1	L1	1uH	.	0805	
<b>Sub-totals:</b>					<b>€10,64</b>

<b>Totals:</b>	<b>€27,42</b>
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