

## BOM

Identificador	Comentario	P/N	Valor
U1	Transciever de CAN, 3V3	SN65HVD230	-
U2	Transciever de CAN, 3V3	SN65HVD230	.
U3	LDO de 3V3	ZLDO1117QG33TA	.
U4	Barómetro	ILPS22QSTR	.
U5	IMU	ICM-42688-V	.
U6	Microcontrolador	STM32F746ZG	.
U7	ESD Supresor	USBLC6-2SC6	.
R1	Resistor para CAN 1 RX	-	0
R2	Resistor para CAN 2 RX	-	0
R3	Resistor para CAN 1 RS	-	10k
R4	Resistor para CAN 2 RS	-	10k
R5	Resistor para CAN 1 TX	-	0
R6	Resistor para CAN 2 TX	-	0
R7	Resistor filtro V_MEAS	-	1M
R8	Resistor filtro I_MEAS	-	1M
R9	Resistor filtro I_MEAS	-	10k
R10	Resistor filtro V_MEAS	-	10k
R11	Resistor IMU MISO	-	0
R12	Resistor I2C_4 SCL		4.7k
R13	Resistor I2C_4 SDA		4.7k
R14	Resistor I2C_2 SCL		4.7k
R15	Resistor I2C_2 SDA		4.7k
R16	Resistor IMU CS		0
R17	Resistor IMU MOSI		0
R18	Resistor IMU SCK		0
R19	Resistor BOOT0 pull-up		10k
R20	Resistor BOOT0 pull-down		10k
R21	Resistor PDR_ON pull-up		10k
R22	Resistor PDR_ON pull-down		0
R23	Resistor serie cristal 12 MHz		220
R24	Resistor divisor VBUS		33k
R25	Resistor divisor VBUS		82k
R26	Resistor NRST pull-up		10k
R27	Resistor serie NRST		1k
R28	Resistor microSD SW pull-up		10k
R29	Resistor microSD CMD pull-up		10k
R30	Resistor microSD DAT3 pull-up		10k
R31	Resistor microSD DAT2 pull-up		10k
R32	Resistor microSD DAT1 pull-up		10k
R33	Resistor microSD DAT0 pull-up		10k
R34	Resistor microSD DAT1 serie		33
R35	Resistor microSD DAT3 serie		33
R36	Resistor microSD DAT0 serie		33
R37	Resistor microSD DAT2 serie		33
R38	Resistor microSD CMD serie		33
R39	Resistor microSD CLK serie		33
R40	Resistor SW2 pull-up		10k
R41	Resistor SW2 serie		1k
R42	Resistor Q1 pull-down		100k
R43	Resistor Q2 pull-down		100k
R44	Resistor Q1 serie		33k
R45	Resistor Q2 serie		33k

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R46	Resistor D3 serie		220
R47	Resistor D4 serie		220
R48	Resistor SW3 pull-up	10k	
R49	Resistor Q3 pull-down	100k	
R50	Resistor Q4 pull-down	100k	
R51	Resistor Q3 serie	33k	
R52	Resistor Q4 serie	33k	
R53	Resistor SW3 serie	1k	
R54	Resistor D5 serie		220
R55	Resistor D6 serie		220
R56	Resistor Q5 pull-down	100k	
R57	Resistor Q6 pull-down	100k	
R58	Resistor Q5 serie	33k	
R59	Resistor Q6 serie	33k	
R60	Resistor D7 serie		220
R61	Resistor D8 serie		220
R62	Resistor Q7 pull-down	100k	
R63	Resistor Q8 pull-down	100k	
R64	Resistor Q7 serie	33k	
R65	Resistor Q8 serie	33k	
R66	Resistor D9 serie		220
R67	Resistor D10 serie		220
R68	Puente shield USB a GND		0
C1	Capacitor bond chassis	100nF	
C2	Capacitor bond chassis	100nF	
C3	Capacitor bond chassis	100nF	
C4	Capacitor bond chassis	100nF	
C5	Capacitor desacople CAN 1	2.2uF	
C6	Capacitor desacople CAN 2	2.2uF	
C7	Capacitor desacople CAN 1	100nF	
C8	Capacitor desacople CAN 2	100nF	
C9	Capacitor filtro V Meas	100pF	
C10	Capacitor filtro V Meas	100pF	
C11	Capacitor desacople LDO	100nF	
C12	Capacitor desacople LDO	4.7uF	
C13	Capacitor estabilidad LDO (tantalio)	10uF	
C14	Capacitor desacople LDO	100nF	
C15	Capacitor desacople barómetro	100nF	
C16	Capacitor desacople barómetro	100nF	
C17	Capacitor desacople IMU	10nF	
C18	Capacitor desacople barómetro	4.7uF	
C19	Capacitor desacople IMU	100nF	
C20	Capacitor desacople IMU	2.2uF	
C21	Capacitor desacople VBAT	100nF	
C22	Capacitor desacople VDDA	100nF	
C23	Capacitor desacople VDDA	1uF	
C24	Capacitor VCAP1	2.2uF	
C25	Capacitor desacople VDDUSB	100nF	
C26	Capacitor VCAP2	2.2uF	
C27	Capacitor Y1	16pF	
C28	Capacitor desacople VDDUSB	1uF	
C29	Capacitor Y1	16pF	
C30	Capacitor desacople VDD	100nF	

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C31	Capacitor desacople VDD		100nF
C32	Capacitor desacople VDD		100nF
C33	Capacitor desacople VDD		100nF
C34	Capacitor desacople VDD		100nF
C35	Capacitor desacople VDD		100nF
C36	Capacitor Y2		16pF
C37	Capacitor debounce reset		10nF
C38	Capacitor desacople VDD		100nF
C39	Capacitor desacople VDD		100nF
C40	Capacitor desacople VDD		100nF
C41	Capacitor desacople VDD		100nF
C42	Capacitor desacople VDD		100nF
C43	Capacitor desacople VDD		100nF
C44	Capacitor Y2		16pF
C45	Capacitor desacople microSD		10nF
C46	Capacitor desacople microSD		10uF
C47	Capacitor debounce switch		10nF
C48	Capacitor debounce switch		10nF
J1	Conector Dupont recto, 2.54 mm, 2 fila	HTSW-108-07-G-D	-
J2	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J3	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J4	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J5	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J6	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J7	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J8	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J9	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J10	Bornera para servos	1935161	-
J11	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J12	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J13	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J14	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA	-
J15	Conector CAN 1	DF13A-3P-1.25H(51)	-
J16	Conector CAN 2	DF13A-3P-1.25H(51)	-
J17	Conector Spektrum	B3B-ZR-SM4-TF(LF)(SN)	-
J18	Conector Dupont 90°, 2.54 mm, 1 fila	TSW-103-08-G-S-RA	-
J19	Conector DF13 Batería	DF13C-6P-1.25V(51)	-
J20	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
J21	Conector DF13 magnetómetro	DF13C-4P-1.25V(51)	-
J22	Conector DF13 GPS	DF13C-6P-1.25V(51)	-
J23	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
J24	Conector para microSD	DM3AT-SF-PEJM5	-
J25	Conector micro USB B	105017-0001	-
J26	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
J27	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
J28	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
J29	Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA	-
Q1	NMOS para LED	2N7002	-
Q2	NMOS para LED	2N7002	-
Q3	NMOS para LED	2N7002	-
Q4	NMOS para LED	2N7002	-
Q5	NMOS para LED	2N7002	-
Q6	NMOS para LED	2N7002	-

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Q7	NMOS para LED	2N7002	-
Q8	NMOS para LED	2N7002	-
D1	Diodo Schottky para power Oring	PMEG60T30ELRX	-
D2	Diodo Schottky para power Oring	PMEG60T30ELRX	-
D3	LED amarillo	150080YS75000	-
D4	LED rojo	150080RS75000	-
D5	LED amarillo	150080YS75000	-
D6	LED rojo	150080RS75000	-
D7	LED verde	150080GS75000	-
D8	LED azul	150080BS75000	-
D9	LED verde	150080GS75000	-
D10	LED azul	150080BS75000	-
SW1	Switch de reset	434121043816	
SW2	Switch de propósito general	434121043816	
SW3	Switch de propósito general	434121043816	
Y1	Cristal 12 MHz	ECS-120-8-33Q-RES-TR	-
Y2	Cristal 32.768 kHz	ECS-.327-9-34QCS-TR9	-

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[illegible]

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Infineon Technologies	SOT-23-3
Infineon Technologies	SOT-23-4
Infineon Technologies	SOT-23-5
Infineon Technologies	SOT-23-6
Infineon Technologies	SOT-23-7
Infineon Technologies	SOT-23-8

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Infineon Technologies	SOT-23-9
Infineon Technologies	SOT-23-10
Nexperia	SOD-123-2
Nexperia	SOD-123-2
Würth Electronics	805
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