Identificador U1 U2 U3	Comentario Transciever de CAN, 3V3 Transciever de CAN, 3V3 LDO de 3V3	P/N SN65HVD230 SN65HVD230 ZLDO1117QG33TA	Valor -	Fabricante Texas Instruments Texas Instruments Diodes Incorporated	Encapsulado SOIC-8 SOIC-8 SOT-223-3
U4 U5	Barómetro IMU	ILPS22QSTR ICM-42688-V		STM TDK	HLGA-10L LGA-14
U6 U7 R1	Microcontrolador ESD Supressor	STM32F746ZG USBLC6-2SC6	0	STM STM	LQFP144 SOT23-6L 402
R2 R3	Resistor para CAN 1 RX Resistor para CAN 2 RX Resistor para CAN 1 RS Resistor para CAN 2 RS		0 10k		402 402 402
R4 R5	Resistor para CAN 2 RS Resistor para CAN 1 TX	-	10k	-	402
R6 R7 R8	Resistor para CAN 2 RS Resistor para CAN 1 TX Resistor para CAN 2 TX Resistor filtro V_MEAS Resistor filtro I_MEAS	-	1M 1M		402 402 402
R9 R10	Resistor filtro I_MEAS  Resistor filtro V_MEAS		10k 10k		402 402
R11 R12 R13	Resistor IMU MISO Resistor I2C_4 SCL Resistor I2C_4 SDA Resistor I2C_2 SCL		4.7k 4.7k		402 402 402
R14 R15			4.7k 4.7k		402
R16 R17 R18	Resistor IMU CS Resistor IMU MOSI Resistor IMU SCK		0		402 402 403
R19 R20 R21	Resistor BOOTO null-un		10k 10k		402 402 402
R21 R22 R23	Resistor BOOT0 pull-down Resistor PDR_ON pull-up Resistor PDR_ON pull-down		10k		402
R24 R25	Resistor serie cristal 12 MHz Resistor divisor VBUS Resistor divisor VBUS		220 33k 82k		402 402 402
R26 R27	Resistor NRST pull-up Resistor serie NRST Resistor microSD SW pull-up		10k 1k		402
R28 R29 R30	Resistor microSD SW pull-up Resistor microSD CMD pull-up Resistor microSD DAT3 pull-up		10k 10k 10k		402 402 402
R31 R32	Resistor microSD DAT2 pull-up Resistor microSD DAT1 pull-up		10k 10k		402
R33 R34 R35	Resistor microSD DAT0 pull-up Resistor microSD DAT1 serie Resistor microSD DAT3 serie		10k 33		402 402 402
R36 R37	Resistor microSD DAT0 serie Resistor microSD DAT2 serie		33		402 402 402
R38 R39 R40	Resistor microSD CMD serie Resistor microSD CLK serie		33 33 10k		402 402 402
R41 R42	Resistor SW2 pull-up Resistor SW2 serie Resistor Q1 pull-down		10k 1k 100k		402 402
R43 R44	Resistor Q2 pull-down Resistor Q1 serie Resistor Q2 serie		100k 33k		402
R45 R46 R47	Resistor D3 serie Resistor D4 serie		33k 220 220		402 402 402
R48 R49	Resistor SW3 pull-up Resistor Q3 pull-down Resistor Q4 pull-down		10k 100k		402 402 402
R50 R51 R52	Resistor O3 serie		100k 33k 33k		402 402 402
R53 R54	Resistor Q4 serie Resistor SW3 serie Resistor D5 serie		1k 220		402 402
R55 R56 R57	Resistor D6 serie Resistor Q5 pull-down		220 100k 100k		402 402 402
R58 R59	Resistor Q6 pull-down Resistor Q5 serie Resistor Q6 serie		33k 33k		402
R60 R61	Resistor D7 serie Resistor D8 serie		220 220 100k		402 402
R62 R63 R64	Resistor Q7 pull-down Resistor Q8 pull-down Resistor Q7 serie		100k 100k 33k		402 402 402
R65 R66	Resistor Q8 serie Resistor D9 serie		33k 220		402 402
R67 R68 C1	Resistor D10 serie Puente shield USB a GND Capacitor bond chassis		220 0 100nF		402 402 402
C2 C3	Capacitor bond chassis Capacitor bond chassis		100nF 100nF		402 402
C4 C5 C6	Capacitor bond chassis Capacitor desacople CAN 1 Capacitor desacople CAN 2		100nF 2.2uF 2.2uF		402 603 603
C7 C8	Capacitor desacople CAN 1 Capacitor desacople CAN 2 Capacitor filtro V Meas		100nF 100nF		402 402 402
C9 C10	Capacitor filtro V Meas		100pF 100pF 100nF		402 402 603
C11 C12 C13	Capacitor desacople LDO Capacitor desacople LDO Capacitor estabilidad LDO (tantalio)		4.7uF 10uF		1206 1206
C14 C15	Capacitor desacople LDO Capacitor desacople barómetro		100nF 100nF	-	603 402
C16 C17 C18	Capacitor desacople barómetro Capacitor desacople IMU Capacitor desacople barómetro		100nF 10nF 4.7uF		402 402 805
C19 C20	Capacitor desacople IMU Capacitor desacople IMU		100nF 2.2uF	-	805 402 603
C21 C22 C23	Capacitor desacople VBAT Capacitor desacople VDDA Capacitor desacople VDDA		100nF 100nF 1uF		402 402 805
C24 C25	Capacitor VCAP1 Capacitor desacople VDDUSB		2.2uF 100nF		402 402 402
C26 C27 C28	Capacitor VCAP2 Capacitor Y1 Capacitor desacople VDDUSB		2.2uF 16pF 1uF		402
C29 C30	Capacitor Y1 Capacitor desacople VDD		16pF 100nF		805 402 402
C31 C32 C33	Capacitor desacople VDD Capacitor desacople VDD Capacitor desacople VDD		100nF 100nF		402 402 402
C34 C35	Capacitor desacople VDD  Capacitor desacople VDD		100nF 100nF		402 402
C36 C37	Capacitor Y2 Capacitor debounce reset		16pF 10nF		402
C38 C39 C40	Capacitor desacople VDD Capacitor desacople VDD Capacitor desacople VDD		100nF 100nF 100nF		402 402 402
C41 C42	Capacitor desacople VDD Capacitor desacople VDD Capacitor desacople VDD		100nF 100nF		402
C43 C44 C45	Capacitor desacople VDD Capacitor Y2 Capacitor desacople microSD		100nF 16pF 10nF		402 402 402
C46 C47	Capacitor desacople microSD Capacitor debounce switch		10uF 10nF		603 402
C48 31 32	Capacitor debounce switch Conector Dupont recto, 2.54 mm, 2 fi Conector Dupont 90°, 2.54 mm, 3 fila Conector Dupont 90°, 2.54 mm, 3 fila Conector Dupont 90°, 2.54 mm, 3 fila	HTSW-108-07-G-D	10nF	- Samtec Samtec	402
33 34 35		TSW-106-08-G-T-RA TSW-106-08-G-T-RA TSW-106-08-G-T-RA	-	Samtec Samtec	
35 36 37	Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA TSW-106-08-G-T-RA	-	Samtec Samtec	
J8 J9		TSW-106-08-G-T-RA TSW-106-08-G-T-RA TSW-106-08-G-T-RA		Samtec Samtec Samtec	
310 311 312	Bornera para servos Conector Dupont 90°, 2.54 mm, 3 fila	1935161 TSW-106-08-G-T-RA		Phoenix Samtec	
312 313 314	Conector Dupont 90°, 2.54 mm, 3 fila Conector Dupont 90°, 2.54 mm, 3 fila Conector Dupont 90°, 2.54 mm, 3 fila	TSW-106-08-G-T-RA TSW-106-08-G-T-RA TSW-106-08-G-T-RA		Samtec Samtec Samtec	
J15 J16	Conector CAN 1	TSW-105-08-G-T-RA TSW-106-08-G-T-RA TSW-106-08-G-T-RA DF13A-3P-1.25H(51) DF13A-3P-1.25H(51)		Hirose	
317 318 319	Conector Spektrum Conector Dupont 90°, 2.54 mm, 1 fila	B3B-ZR-SM4-TF(LF)(SN) TSW-103-08-G-S-RA		JST Samtec Hirose	
J20 J21	Conector DF13 Batería Conector Dupont 90°, 2.54 mm, 2 fila Conector DF13 magnetómetro Conector DF13 GPS	DF13C-6P-1.25V(51) HTSW-105-08-G-D-RA DF13C-4P-1.25V(51) DF13C-6P-1.25V(51)		Samtec Hirose	
J22 J23	Conector DF13 GPS Conector Dupont 90°, 2.54 mm, 2 fila Conector para microSD		-	Hirose Samtec	
324 325 326	Conector micro USB B Conector Dupont 90° 2.54 mm, 2 file	DM3AT-SF-PEJM5 105017-0001 HTSW-105-08-G-D-RA		Hirose Molex Samtec	
J27 J28	Conector Dupont 90°, 2.54 mm, 2 fila Conector Dupont 90°, 2.54 mm, 2 fila Conector Dupont 90°, 2.54 mm, 2 fila Conector Dupont 90°, 2.54 mm, 2 fila	HTSW-105-08-G-D-RA HTSW-105-08-G-D-RA	-	Samtec Samtec	
J29 Q1	NMOS para LED NMOS para LED	HTSW-105-08-G-D-RA 2N7002 2N7002		Samtec Infineon Technologies Infineon Technologies	SOT-23-3 SOT-23-4
Q2 Q3 Q4	NMOS para LED	2N7002 2N7002	-	Infineon Technologies Infineon Technologies Infineon Technologies	SOT-23-4 SOT-23-5 SOT-23-6
Q5 Q6	NMOS para LED NMOS para LED	2N7002 2N7002 2N7002		Infineon Technologies Infineon Technologies Infineon Technologies	SOT-23-7 SOT-23-8 SOT-23-9
Q7 Q8 D1	NMOS para LED Diodo Schottky para power Oring Diodo Schottky para power Oring LED amarillo	2N7002 PMEG60T30ELRX		Nexperia	SOT-23-10 SOD-123-2
D2 D3	Diodo Schottky para power Oring LED amarillo	PMEG60T30ELRX 150080YS75000		Nexperia Wurth Electronics	SOD-123-2 805
D4 D5 D6	LED rojo	150080RS75000 150080YS75000 150080RS75000		Wurth Electronics Wurth Electronics Wurth Electronics	805 805 805
D6 D7 D8	LED verde	150080RS75000 150080GS75000 150080BS75000		Wurth Electronics Wurth Electronics	805 805
	LED verde	150080GS75000 150080BS75000		Wurth Electronics	805 805
D9 D10 SW1	LED verde LED azul Switch de reset	434124042C10		Wurth Electronics	805
D9 D10 SW1 SW2 SW3 Y1	LED azul Switch de reset Switch de propósito general Switch de propósito general Cristal 12 MHz	434121043816 434121043816 434121043816 434121043816 ECS-120-8-33Q-RES-TR		Wurth Electronics Wurth Electronics Wurth Electronics Wurth Electronics ECS	805