



Comment	Description	Designator	Footprint	LibRef	Quantity
22pF	Capacitor	C1, C2	c-0603	CAP0805	2
100nF	Capacitor	C3, C4, C5, C6, C7, C8, C9, C10, C13	c-0603	CAP0805	9
100uF25V	Capacitor Tantalum	C11	CAPMP7343X310N	CT	1
10uF6.3v	Capacitor Tantalum	C12	CAPMP2012X150USR	CT	1
1uF	Capacitor	C14	c-0603	CAP0805	1
APT1608SGC	APT1608SGC	D1, D4	LED-0603-GREEN	LED	2
SS14	Diode	D2	SOD323	DIODE SCHOTTKY	1
APT1608QBC/D	APT1608QBC/D	D3	LED-0603-BLUE	LED	1
SS14	Diode	D5	DO-214AC	DIODE SCHOTTKY	1
USB Mini	USB 2.0, Right Angle, SMT, B Type, Receptacle, 5 Position, Black	J1	440247	440247-2	1
POWER	Header, 2-Pin	JP1	IDC1-2P	CON2	1
I2C	0530470410	P1	H53047-04	Header 4	1
Header 3	Header, 3-Pin	P2, P3, P4	IDC1-3M	Header 3	3
SWD	0530470410	P5	H53047-04	Header 4	1
BOOT	Header, 2-Pin, Dual row	P6	HDR2X2	Header 2X2	1
Aux3	Header, 3-Pin	P7	HDR1X3	Header 3	1
Aux4	Header, 3-Pin	P9	HDR1X3	Header 3	1
Aux5	Header, 3-Pin	P10	HDR1X3	Header 3	1
UART4	0530470410	P11	H53047-04	Header 4	1
Aux1	Header, 3-Pin	P12	HDR1X3	Header 3	1
Aux2	Header, 3-Pin	P13	HDR1X3	Header 3	1
UART1	0530470410	P14	H53047-04	Header 4	1
SI4599DY	HEXFET Power MOSFET	Q1, Q2, Q5, Q6, Q9, Q10, Q13, Q15, Q17	SO8-(SOT-96-1)	AUIRF7343	9
BSS123	N-channel Enhancement Mode Field-effect Transistor	Q3, Q4, Q7, Q8, Q11, Q12, Q14, Q16, Q18	SOT-23	2N7002	9
IRF9335	HEXFET Power MOSFET	Q19	SO-8_N	IRF7404	1
330	Resistor	R1, R2, R3, R4, R6, R7, R9, R10, R11, R12, R41	r-0603	Res, Res, Res, Res, Res, Res, RES 0603 330R, Res, Res, Res, Res, RES 0603 330R	11
10k	Resistor	R5, R13, R14	R-0603	RES 0603 330R	3
100	Resistor	R8, R15	R-0603	RES 0603 330R	2
1k5	Resistor	R16	R-0603	RES 0603 330R	1
1k	Resistor	R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R40	r-0603	Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, Res, RES 0603 330R	19
22	Resistor	R35, R36	R-0603	RES 0603 330R	2
4.7k	Resistor	R37, R38	R-0603	RES 0603 330R	2
220	Resistor	R39	r-0603	Res	1
STM32F103RCT6	STM32 ARM-based 32-bit MCU with 128 Kbytes Flash, 64-pin LQFP, Industrial Temperature	U1	LQFP64_N	STM32F103RBT6	1
24C02C-E/SN	2Kbit, 400kHz, 5V, I2C Serial EEPROM, 8-Pin SOIC 150mil, Extended Temperature	U3	SOIC-SN8_N	24C02C-E/SN	1
78M33	Positive Voltage Regulator	U4	TO-252	L78M05CDT	1
8MHz	7B-8.000MAAJ-T	ZQ1	7B_6x3.2	ZQ_KX12B	1