









Comment	Description	Designator	Footprint	LibRef	Quantity
	Ceramic Capacitor, Multilayer, Ceramic,				
0.1uF 16V		C1, C2, C3, C4, C5, C6, C7, C8, C9	CAP0.1uF	CAP 0.1uF	9
PIN_HEADER	Board Connector, 1 Contact(s), 1 Row(s), Male, Straight, Solder Terminal	JO, J1, J2, J3, J4, J5, J9	PIN_HEADER	PIN_HEADER	7
CAN H	Board Connector, 1 Contact(s), 1 Row(s), Male, Straight, Solder Terminal	J6	PIN_HEADER	PIN_HEADER	1
CAN L	Board Connector, 1 Contact(s), 1 Row(s), Male, Straight, Solder Terminal	J7	PIN_HEADER	PIN_HEADER	1
CON_STM32_PROGRA MMING	CONN HEADER SMD 10POS 1.27MM	J8	FTSH-105-01-F-DV-K-P- TR	CON_STM32_PROGRA MMING	1
CON 2-SCREW	TERM BLK 2POS SIDE ENTRY 5MM	J10	1935161	CON 2-SCREW	1
CON 3-SCREW	TERM BLK 3POS SIDE ENTRY 5MM	J11	1935174	CON 3-SCREW	1
RGB LED	Tri Color Pcb Top View	L1, L2, L3	19-337C/RSBHGHC- A88/4T	LED_RGB	3
MOUNTING HOLE	SMD Led R	MH1, MH2, MH3,	MOUNTING HOLE	MOUNTING HOLE	4
SW_SPST_NO	SWITCH TACTILE SPST-	MH4 MODE, S2	B3U-1000P	SW_SPST_NO	2
311_110	NO 0.05A 12V USB Connector, 5	INIODE, 32	D30-10001	34-31-140	
Micro Type B	Contact(s), Female,	P1	FCI_10118193-0001LF	USB Connector	1
24A 60V	Power Field-Effect Transistor, 24A I(D), 60V, 0.05ohm, 1- Element, N-Channel, Silicon, Metal-oxide Semiconductor FET, TO-252AA	Q1, Q2, Q3, Q4, Q5, Q6, Q7	STD20NF06LT4	MOSFET	7
20Ω 50V	Fixed Resistor, 0.1W, 20ohm, 50V, 5% +/- Tol, 200ppm/Cel, Surface Mount, 0603	R3, R4, R10, R11	SDR03EZPJ200	RES 20Ω	4
68Ω 200V	VISCRCW120668R0JN EAC Res Thick Film 1206	R5, R12	CRCW120668R0JNEAC	RES 68Ω	2
10kΩ 200V	Fixed Resistor, Metal Glaze/thick Film, 0.25W, 10000ohm, 200V, 1% +/-Tol, 50ppm/Cel, Surface Mount, 1206	R6, R7, R8, R13, R14, R15, R16, R17, R18, R19	13- RE1206FRE0710KLCT- ND	RES 10k Ω	10
RES 120Ω	Fixed Resistor, 0.1W, 120ohm, 50V, 5% +/- Tol, 200ppm/Cel, Surface Mount, 0603	R9	SDR03EZPJ200	RES 120	1
50V	Fixed Resistor, 0.1W, 120ohm, 50V, 5% +/- Tol, 200ppm/Cel, Surface Mount, 0603	R20	SDR03EZPJ200	RES 120	1
TESTPT		TP-CRX, TP-CTX, TP-E1, TP-E2, TP-H1, TP-H2, TP-H3, TP-H4, TP-H5, TP-H6, TP-PWM, TP- RX, TP-TX	TESTPT SQUARE	TESTPT SQUARE	13
STM32F446RET6	RISC Microcontroller, 32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64	U1	STM_LQFP64_N	STM32F446RET6	1
FT232RL	USB Bus Controller, CMOS, PDSO28	U2	FT232RL	FT232RL	1
5.5v MAX	Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6	U3	74LVC1T45Z6-7	Bi-Directional Logic Converter	1
IC_CAN_TRANSCEIVER	IC TXRX CAN 4MBPS 8SO	U4	LT-S8_N	IC_CAN_TRANSCEIVER	1
3.3V Out 5.5V MAX	Microchip Technology MIC5365-3.3YC5-TR, LDO Voltage Regulator Controller, 150mA, 3.3 V, ±3% 5-Pin, SC-75	U5	MIC5365-3.3YC5-TR	LDO 5.5/3.3V	1