









Comment	Description	Designator	Footprint	LibRef	Quantity
	Ceramic Capacitor, Multilayer, Ceramic,				
0.1uF	16V, 10% +ToI, 10% -	C1, C2, C3, C4, C5, C6,	CAP0.1uF	CAP 0.1uF	11
	Tol, X7R, 15% TC, 0.1uF, Surface Mount,	C7, C8, C9, C10, C11			
	0402				
PIN_HEADER	Board Connector, 1 Contact(s), 1 Row(s),				
	Male, Straight, Solder	J0, J1, J2, J3, J4, J5, J9	PIN_HEADER	PIN_HEADER	7
	Terminal Board Connector, 1				
CAN H	Contact(s), 1 Row(s),	J6	DIM LIEADED	DINI LIFADED	1
	Male, Straight, Solder Terminal	10	PIN_HEADER	PIN_HEADER	
	Board Connector, 1				
CAN L	Contact(s), 1 Row(s),	J7	PIN_HEADER	PIN_HEADER	1
	Male, Straight, Solder Terminal				
CON_STM32_PROGRA	CONN HEADER SMD	J8	FTSH-105-01-F-DV-K-P-		1
MMING	10POS 1.27MM TERM BLK 2POS SIDE		TR	MMING	
CON 2-SCREW	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-	LED_RGB	3
	SMD Led R	MH1, MH2, MH3,	A88/4T		
MOUNTING HOLE	CIANTOLI TA	MH4	MOUNTING HOLE	MOUNTING HOLE	4
SW_SPST_NO	SWITCH TACTILE SPST- NO 0.05A 12V	MODE, S2	B3U-1000P	SW_SPST_NO	2
Micro Type B	USB Connector, 5	P1	FCI_10118193-0001LF	USB Connector	
	Contact(s), Female, Right Angle, Solder				1
	Terminal, Locking,				
	Receptacle Power Field-Effect				
24A 60V 20Ω 0603	Transistor, 24A I(D),				
	60V, 0.05ohm, 1- Element, N-Channel,	Q1, Q2, Q3, Q4, Q5, Q6, Q7	STD20NF06LT4	MOSFET	7
	Silicon, Metal-oxide				/
	Semiconductor FET, TO-252AA				
	Fixed Resistor, 0.1W,				
	20ohm, 50V, 5% +/-	R3, R4, R10, R11	SDR03EZPJ200	RES 20Ω	4
	Tol, 200ppm/Cel, Surface Mount, 0603				
68Ω 1206	VISCRCW120668R0JN EAC Res Thick Film	DE D12	CRCW120668R0JNEAC	DEC 400	2
	1206	R5, R12	CRCW 120668RUJNEAC	KF2 09(1	2
10kΩ 1206	Fixed Resistor, Metal Glaze/thick Film,	R6, R7, R8, R13, R14, R15, R16, R17, R18, R19, R21	13- RE1206FRE0710KLCT- ND	RES 10k Ω	
	0.25W, 10000ohm,				11
	200V, 1% +/-Tol, 50ppm/Cel, Surface				"
	Mount, 1206				
120Ω 0603	Fixed Resistor, 0.1W, 120ohm, 50V, 5% +/-				
	Tol, 200ppm/Cel,	R9	SDR03EZPJ200	RES 120	1
	Surface Mount, 0603 Fixed Resistor, 0.1W,				
50V	120ohm, 50V, 5% +/-	R20	SDR03EZPJ200	RES 120	1
	Tol, 200ppm/Cel, Surface Mount, 0603	K20	3DR03LZF3Z00	KL3 120	'
	Surface Modrit, 0003	TP-CRX, TP-CTX, TP-E1,			
TESTPT		TP-E2, TP-H1, TP-H2, TP-H3, TP-H4, TP-H5,	TECTOT COLLADE	TESTPT SQUARE	13
		TP-H6, TP-PWM, TP-	TESTPT SQUARE	TESTPT SQUARE	13
		Inv. TD TV			
		RX, TP-TX			
	RISC Microcontroller,				
STM32F446RET6	RISC Microcontroller, 32-Bit, FLASH, CORTEX- M4F CPU, 180MHz,		STM_LQFP64_N	STM32F446RET6	1
STM32F446RET6	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64		STM_LQFP64_N	STM32F446RET6	1
STM32F446RET6 FT232RL	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64 USB Bus Controller,		STM_LQFP64_N FT232RL	STM32F446RET6	1
	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64	U1			
	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1-	U1		FT232RL Bi-Directional Logic	
FT232RL	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6	U1 U2	FT232RL	FT232RL	1
FT232RL	32-Bit, FLASH, CORTEX- M4F CPU, 180MHz, CMOS, PQFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS	U1 U2	FT232RL	FT232RL Bi-Directional Logic	1
FT232RL 5.5v MAX	32-Bit, FLASH, CORTEX M4F CPU, 180MHz, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS 8SO	U1 U2 U3	FT232RL 74LVC1T45Z6-7	FT232RL Bi-Directional Logic Converter	1
FT232RL 5.5v MAX	32-Bit, FLASH, CORTEX M4F CPU, 180MH2, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transcelver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS 850 Microchip Technology MicS365-3.3YC5-TR,	U1 U2 U3	FT232RL 74LVC1T45Z6-7 LT-S8_N	FT232RL Bi-Directional Logic Converter	1
FT232RL 5.5v MAX	32-Bit, FLASH, CORTEX M4F CPU, 180MHz, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS 8SO Microchip Technology Mic5365-3.3YC5-TR, LDD Voltage Regulator	U1 U2 U3	FT232RL 74LVC1T45Z6-7	FT232RL Bi-Directional Logic Converter	1
FT232RL 5.5v MAX IC_CAN_TRANSCEIVER	32-Bit, FLASH, CORTEX M4F CPU, 180MH2, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transcelver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS 850 Microchip Technology MicS365-3.3YC5-TR,	U1 U2 U3	FT232RL 74LVC1T45Z6-7 LT-S8_N	FT232RL BI-Directional Logic Converter IC_CAN_TRANSCEIVER	1 1
FT232RL 5.5v MAX IC_CAN_TRANSCEIVER	32-Bit, FLASH, CORTEX M4F CPU, 180MH2, CMOS, POFP64 USB Bus Controller, CMOS, PDSO28 Bus Transceiver, LVC/LCX/Z Series, 1- Func, 1-Bit, True Output, CMOS, PDSO6 IC TXRX CAN 4MBPS 850 Microchip Technology MIC5365-3.3VC5-TR, LDO Voltage Regulator Controller, 150mA, 3.3	U1 U2 U3	FT232RL 74LVC1T45Z6-7 LT-S8_N	FT232RL BI-Directional Logic Converter IC_CAN_TRANSCEIVER	1 1