







Comment	Description	Designator	Footprint	LibRef	Quantity
64-pin STM32F4 chip with symbol for Foxcar Control Board		1	LQFP64	STM32F4R_64PIN_FO XCAR	
v1. 3-Pin HEADER		5V, 7V_A, 7V_B, RECV1, RECV2, RECV3, RECV4	3-Pin HEADER	3-Pin HEADER	
T_PLUG	LiPo battery T plug connector	11V, 11V_USB	T_plug	T_PLUG	
R60DF4220506AJ	General Purpose Metallized Polyester Film Capacitor, 2.2 uF, 40 VAC, 63 VDC, 5 %	C1, C10	10mm lead spacing CAP	R60DF4220506AJ	
VJ0805Y104JXATW1B C	SMD Multilayer Ceramic Capacitor, 0805 [2012 Metric], 0.1 µF, 50 V, ± 5%, X7R, VJ Series	C2, C11	0805	VJ0805Y104JXATW1B C	
EEU-FR1V471	Aluminum Electrolytic Capacitors, 470uF, Low ESR	C3, C12	5mm lead spacing ELCAP	EEU-FR1V471	
C0805C104M5RACTU	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50V 0.1uF X7R 0805 20%	C4, C14, C16, C18, C20, C22, C24, C26	0805	C0805C104M5RACTU	
100nF	Capacitor	C5, C6, C8, C30, C31, C32, C33	FP_0805_CAP_085	CAP 100nF	
VJ0805Y105KXQTW1B C	SMD Multilayer Ceramic Capacitor, 0805 [2012 Metric], 1 µF, 10 V, ± 10%, X7R, VJ Series	C7, C13, C28, C29	0805	VJ0805Y105KXQTW1B C	
GRM21BR61E106MA7 3L	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 10uF 25volts X5R 20%	C9, C17, C21, C25	0805	GRM21BR61E106MA7 3L	
TMK325B7226KMHP	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1210 25V 22uF 10% X7R AEC- Q200	C15, C19, C23, C27	1210	TMK325B7226KMHP	
22pF CAN transceiver	Capacitor CAN transceiver	C_quartz1, C_quartz2 CAN1	FP_0805_CAP_085 SOIC-8	CAP 22pF SN65HVD230	
4-Pin Header	TÜSKESOR 2 P SMD	CAN, SWD	4-Pin Header	4-Pin Header	
2-Pin Header	SPHSS220-B02-4/3 (T- T) 2mm PIN 0.5x0.5 TÖRDELHETÖ [43-10- 37], [NoValue]	CH1, CH1N, CH2, CH2N, UART	2-Pin Header	2-Pin Header	
SS32A	3A 40V DO-214AC SCH.RECT. SS34A (YET) SMA (SK34A;SX34) [83-02- 56]	D1, D2	DO-214AC(SMA)	SS32A	
M3 screw drillhole	5mm diameter via with 3mm hole	11, 12, 13, 14	3mm diameter drill	M3 screw drillhole	
43-17-42	TÁPCSATL 2.00mm 4P APA 90° NCW200S- 04R (G-S) FORR. [43- 17-42]	Inkrement	43-17-42	43-17-42	
1935776	PCB terminal block, nominal current: 32 A, nom. voltage: 400 V, pitch: 5 mm, number of positions:	n	PT 2,5/ 2-5,0-H	1935776	
SDR1307-120ML	Fixed Inductors 12uH 20% SMD 1307	L1, L2	SDR1307	SDR1307-120ML	
SDR1307-5R6ML	Fixed Inductors 5.6uH 20% SMD 1307	L3, L4	SDR1307	SDR1307-5R6ML	
RT9013 LDO Voltage Regulator	LDO Voltage Regulator	LDO*	RT9013_SOT23	RT9013	
LED Red	Red LED	LED1	FP_0805_LED_RED	LED Red	
MC32593	USB Connector, USB Type A, USB 2.0, Receptacle, 4 Ways, Through Hole Mount, Right Angle	P1	MC32593	MC32593	
CR0805-FX-20R0ELF	Thick Film Resistors - SMD 20ohm 1%	R1, R2	0805	CR0805-FX-20R0ELF	
RC0603FR-0730RL	Thick Film Resistors - SMD 30 OHM 1%	R3, R7, R10, R13	0603_RES	RC0603FR-0730RL	
47K	Resistor Thick Film Resistors -	R4	FP_0805_RES	RES 47K	
CRCW060380K6FKEA	SMD 1/10watt 80.6Kohms 1% Thick Film Resistors -	R5, R8	0603_RES	CRCW060380K6FKEA	
CRCW060310K0FKEA	SMD 1/10watt 10Kohms 1% Thick Film Resistors -	R6, R9, R12, R15	0603_RES	CRCW060310K0FKEA	
	SMD 1/10watt	R11, R14	0603_RES	CRCW060352K3FKEA	
CRCW060352K3FKEA	52.3Kohms 1%	DIZ DIO 5		RES 10K	1
CRCW060352K3FKEA		R17, R18, R20, R21, R_boot	FP_0805_RES	RES TUR	
10K 2R2	52.3Kohms 1% Resistor Resistor	R_boot R22, R23, R24, R25	FP_0805_RES	RES 2R2	
10K	52.3Kohms 1% Resistor Resistor Resistor Resistor	R_boot			
10K 2R2 1K	52.3Kohms 1% Resistor Resistor Resistor Resistor Resistor HEXFET ZPOWER MOSFET, Vdss=30V, Rdson=3.1mOhm, Og=39nC, Id=160A	R_boot R22, R23, R24, R25 R_led1	FP_0805_RES FP_0805_RES	RES 2R2 RES 1K	
10K 2R2 1K 120R	52.3Kohms 1% Resistor Resistor Resistor Resistor Resistor Resistor Resistor MOSFET, Vdss=30V, Rdson=3.1mOhm, Qa-39nC, Id=160A High and Low Side	R_boot R22, R23, R24, R25 R_led1 Rterm	FP_0805_RES FP_0805_RES FP_0805_RES	RES 2R2 RES 1K RES 120R	
10K 2R2 1K 120R IRLR8743TRLPBF	52.3Kohms 1% Resistor Resistor Resistor Resistor Resistor HEXFET ZPOWER MOSFET, Vdss=30V, Rdson=3.1mOhm, Og=39nC, Id=160A	R_boot R22, R23, R24, R25 R_led1 Rterm U1, U3, U4, U7	FP_0805_RES FP_0805_RES FP_0805_RES TO-252 (DPAK)	RES 2R2 RES 1K RES 120R IRLR8743TRLPBF	