



Legends:

- 1. Route CAN as bus style
- 2. GHR1.25 header is the one Robomaster C620 ESC CAN header



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Comment	Description	Designator	Footprint	LibRef	Quantity
	Capacitor (Semiconductor SIM	C1 CE C4 C0 C11			
100nF	Model)	C12, C13, C14, C15	CC1005-0402	Cap Semi	9
	Capacitor				
20pF	(Semiconductor SIM Model)	C2, C3	CC1005-0402	Cap Semi	2
	Capacitor				
20nE	(Semiconductor SIM Model)	C4	CC1608-0603	Cap Semi	1
39pF	Capacitor	C4	CC1606-0603	сар зепіі	ı
	(Semiconductor SIM				
2.2uF	Model)	C7, C8, C10	CC1005-0402	Cap Semi	3
	Capacitor (Semiconductor SIM				
1uF	Model)	C16, C17	CC1005-0402	Cap Semi	2
3V	Typical RED GaAs LED	D1	D0603	LED	1
30	Typical RED GaAs	D1	D0003	LED	1
5V	LED	D2	D0603	LED	1
LED1	Typical RED GaAs LED	D3	D0603	LED	1
LEDI	Typical RED GaAs	D3	D0603	LED	ı
LED2	LED	D4	D0603	LED	1
LED2	Typical RED GaAs LED	D5	D0403	LED	4
LED3	Typical RED GaAs	D5	D0603	LED	I
LED4	LED	D6	D0603	LED	1
0.44 5.000	Semiconductor	F1	CD1400 0403	Dog Comi	1
0.4A Fuse PWM1	Resistor Header, 3-Pin	F1 JP1	CR1608-0603 LOCKEDHDR-3	Res Semi Header 3	1
PWM2	Header, 3-Pin	JP2	LOCKEDHDR-3	Header 3	1
SWD	Header, 4-Pin	P1	LOCKEDHDR-4	Header 4	1
SPI1	Header, 6-Pin	P2	6410-06	Header 6	1
SPI2	Header, 6-Pin	P3	6410-06	Header 6	1
UART1	Header, 4-Pin	P4	LOCKEDHDR-4	Header 4	1
UART3	Header, 4-Pin	P5	LOCKEDHDR-4		1
CAN1	Header, 4-Pin	P6, P7	LOCKEDHDR-4	Header 4 Header 4	2
		P8			1
ENC1	Header, 5-Pin	P9	lockedHDR-5	Header 5	1
CAN2	Header, 5-Pin Header, 4-Pin	P10, P11	lockedHDR-5 LOCKEDHDR-4	Header 5	2
				Header 4	4
RM	1.25mm Semiconductor	P12, P13, P14, P15	GHR1.25 2P SMD	GHR 2P	4
60R	Resistor	R1, R2, R5, R6	CR1608-0603	Res Semi	4
101.	Semiconductor	D2 D4	CD1005 0403	Dan Caral	
10k	Resistor Semiconductor	R3, R4	CR1005-0402	Res Semi	2
1k	Resistor	R7	CR1005-0402	Res Semi	1
	Semiconductor				
1.5k	Resistor	R8	CR1005-0402	Res Semi	1
1k	4x Resistor Array	R9	ARC241-0603x4	Res Array	1
SW	Single-Pole, Single-	SW1	SOP SW 4P	4P SOP SW 1.27	1
RESET	Throw Switch	SW2	PUSH SWITCH 2-PIN	SW-SPST	1
	Single-Pole, Single-				
BTN1	Throw Switch 5V to 12V Charge	SW3	PUSH SWITCH 2-PIN	SW-SPST	1
TJA1050	Pump	U1, U3	SOP-8	TJA1050	2
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	STM32 ARM-based				
	32-bit MCU with 128 Kbytes Flash, 64-pin				
	LQFP, Industrial				
STM32F405RGT6	Temperature	U2	LQFP64_N	STM32F103RBT6	1
	LDO				
	Input: 2.2V to 5.5V Output: 3.3V 250mA				
	Enable: high volt->				
LP5907	turns on	U4	SOT-23	LP5907	1
8.00MHz	Crystal Oscillator	X1	POL_SMD3225	XTAL	1