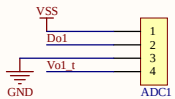
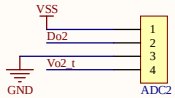
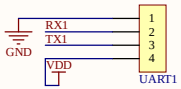
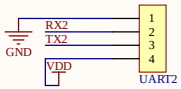
ADC BLOCK





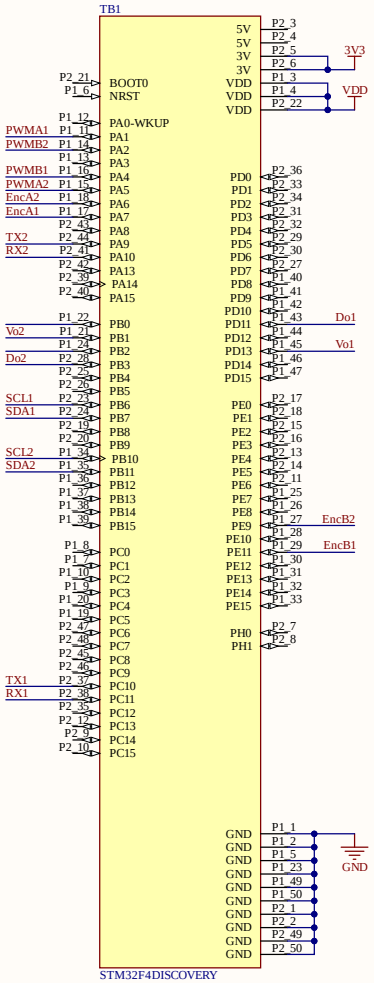
UART BLOCK



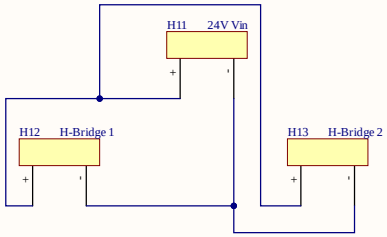


ENCODER BLOCK

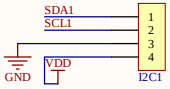
MCU BLOCK

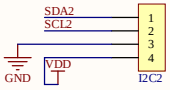


H-BRIDGE Vin Header

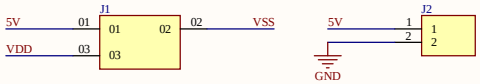


I2C BLOCK

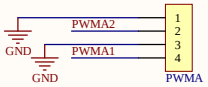


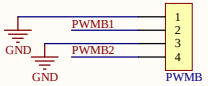


Switch Sensor Vin



PWM BLOCK





CLAMPING DIODE

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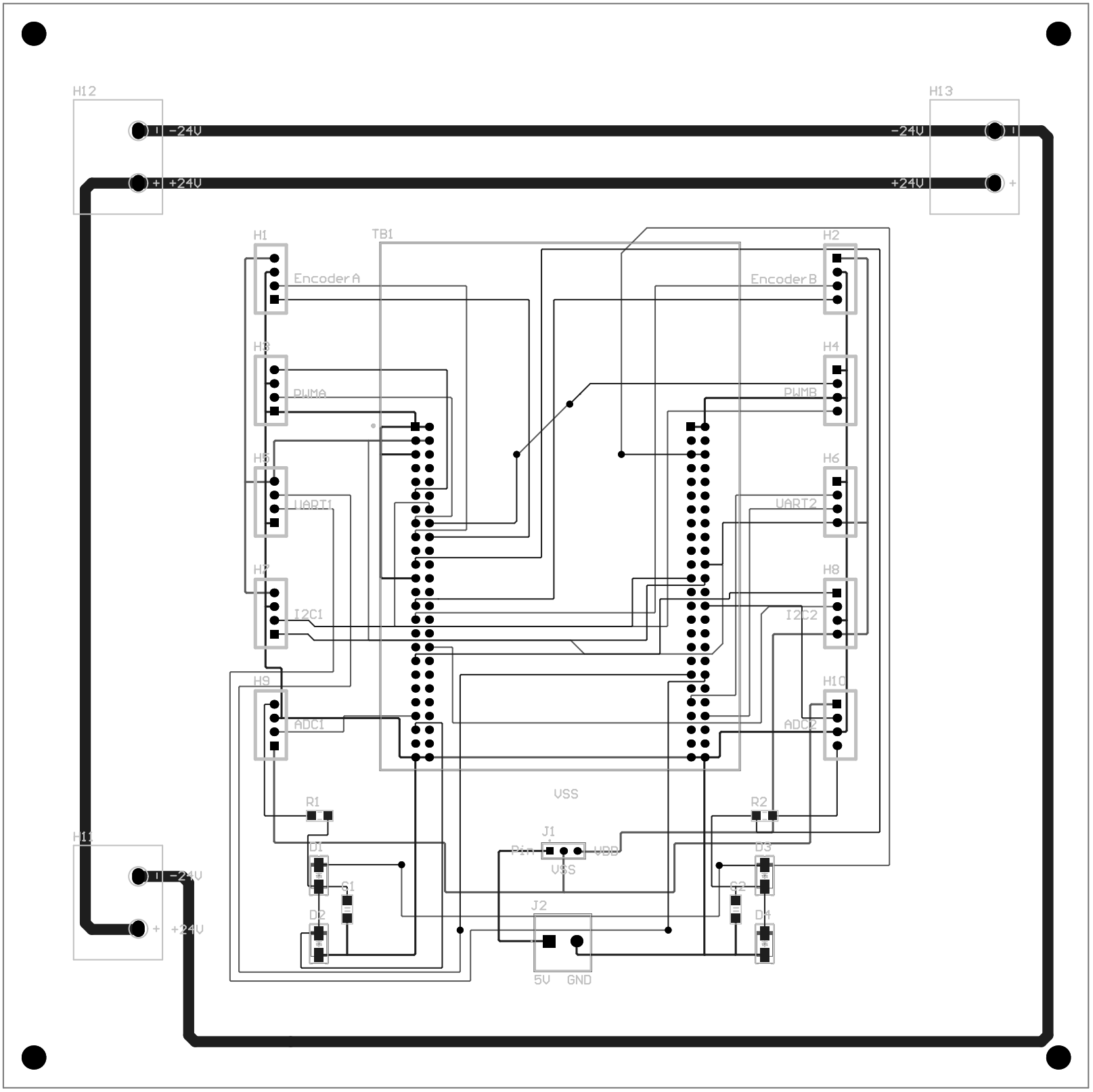
H12
-24V
+24V
H13
-24V
+24V
H11
-24V
+24V
H1
Encoder A
H2
Encoder B
H3
PWMA
H4
PWMB
H5
UART1
H6
UART2
H7
I2C1
H8
I2C2
H9
ADC1
H10
ADC2
TB1
VSS
R1
R2
J1
Pin
VDD
VSS
D1
D3
S1
S2
D2
D4
J2
5V
GND

Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Capacitor SMD 1206	C1, C2	Cap 1206	Cap 1206	2
SS14	Dán	D1, D2, D3, D4	DIODE SMA	Diode SS14 (1N5819)	4
EncoderA	Cắm	H1	XH2.54M-4	Header 4P 2.54 Duc Thang	1
EncoderB	Cắm	H2	XH2.54M-4	Header 4P 2.54 Duc Thang	1
PWMA	Cắm	H3	XH2.54M-4	Header 4P 2.54 Duc Thang	1
PWMB	Cắm	H4	XH2.54M-4	Header 4P 2.54 Duc Thang	1
UART1	Cắm	H5	XH2.54M-4	Header 4P 2.54 Duc Thang	1
UART2	Cắm	H6	XH2.54M-4	Header 4P 2.54 Duc Thang	1
I2C1	Cắm	H7	XH2.54M-4	Header 4P 2.54 Duc Thang	1
I2C2	Cắm	H8	XH2.54M-4	Header 4P 2.54 Duc Thang	1
ADC1	Cắm	H9	XH2.54M-4	Header 4P 2.54 Duc Thang	1
ADC2	Cắm	H10	XH2.54M-4	Header 4P 2.54 Duc Thang	1
24V Vin		H11	barrier_terminal	Barrier Terminal	1
H-Bridge 1		H12	barrier_terminal	Barrier Terminal	1
H-Bridge 2		H13	barrier_terminal	Barrier Terminal	1
		J1	SAMTEC_TSW-101-07-G-T-LL	TSW-101-07-G-T-LL	1
	TERMINAL BLOCK, PCB, 2WAY, 26-12AWG; Connector Type: PCB Terminal Block; Connector Mounting: PCB; Pitch Spacing: 5.08…	J2	MULTICOMP_MC000048	MC000048	1
470	Dán	R1, R2	tro smd 1206	Tro 1206 1% 470k	2
STM32F4DISCOVERY	Development kit: ARM ST; pin strips, pin header; No.of	TB1	MODULE_STM32F4DISCOVERY	STM32F4DISCOVERY	1