U1 — STM32G474RET6

Pin	Name		Name	Pin
1	VBAT		VCC	64
2	PC13		VSS	63
3	PC14-OSC32_IN		PB9	62
4	PC15-OSC32_OUT		PB8-BOOT0	61
5	PF0-OSC_IN		PB7	60
6	PF1-OSC_OUT		PB6	59
7	PG10-NRST		PB5	58
8	PC0		PB4	57
9	PC1		PB3	56
10	PC2		PD2	55
11	PC3		PC12	54
12	PA0		PC11	53
13	PA1		PC10	52
14	PA2		PA15	51
15	VSS		PA14	50
16	VDD		PA13	49
17	PA3		VDD	48
18	PA4		VSS	47
19	PA5		PA12	46
20	PA6		PA11	45
21	PA7		PA10	44
22	PC4		PA9	43
23	PC5		PA8	42
24	PB0		PC9	41
25	PB1		PC8	40
26	PB2		PC7	39
27	VSSA		PC6	38
28	VREF+		PB15	37
29	VDDA		PB14	36
30	PB10		PB13	35
31	VSS		PB12	34
32	3.3V		GNDB	33

U4 — VNH7070ASTR

Pin	Name		Name	Pin
1	GNDA		GNDA	16
2	OUTA		OUTA	15
3	INA		SEL0	14
4	VCC		CS	13
5	VCC		VCC	12
6	INB		PWM	11
7	OUTB		OUTB	10
8	GNDB		GNDB	9

U3 — VNH7070ASTR

Pin	Name		Name	Pin
8	GNDB		GNDB	9
7	OUTB		OUTB	10
6	INB		PWM	11
5	VCC		VCC	12
4	VCC		CS	13
3	INA		SEL0	14
2	OUTA		OUTA	15
1	GNDA		GNDA	16

U2 — VNH7070ASTR

Pin	Name		Name	Pin
16	GNDA		GNDA	1
15	OUTA		OUTA	2
14	SEL0		INA	3
13	CS		VCC	4
12	VCC		VCC	5
11	PWM		INB	6
10	OUTB		OUTB	7
9	GNDB		GNDB	8

VCC,12V

GND

R1 · R2 · R3 · R4 · D1

Schematic		Schematic1	Create at	2025-12-13
			Update at	2025-12-13
Board		Board1	Page	P1
Drawn				
Reviewed		-		
			Version	Size	Page 1 Total 1
			V1.0	A4	EasyEDA.com