Vibration Sensor (H1)
- 3.3V
- GND_3.3V
- GPIO2
- 3.3V
- GND_3.3V
- GPIO18
- 2.54mm2*5p

Dot Matrix (H2)
- DIN_GPIO27
- CLK_GPIO26
- CS_GPIO5
- 5V
- GND_5V
- 2.54mm2*5p

VIBRATION_MOTOR
- H4: M-, 5V, 1.27-1*2P
- D1: M-, 5V
- GPIO4, R1 10K, Q1 2N2222A, M-, GND_3.3V

ESP32_DEV_KIT (U1 ESP32-DevKitC)
Pin	Name		Name	Pin
1	3V3		GND	20
2	EN		IO23	21
3	VP		IO22	22
4	VN		TX	23
5	IO34		RX	24
6	IO35		IO21	25
7	IO32		GND	26
8	IO33		IO19	27
9	IO25		IO18	28
10	IO26		IO5	29
11	IO27		IO17	30
12	IO14		IO16	31
13	IO12		IO4	32
14	GND		IO0	33
15	IO13		IO2	34
16	D2		IO15	35
17	D3		D1	36
18	CMD		D0	37
19	5V		CLK	38

- DOUT_GPIO32 → IO32
- CLK_GPIO26 → IO26
- DIN_GPIO27 → IO27
- BCLK_GPIO14 → IO14
- R6 10K → GPIO23
- ESP32_TX
- TX
- SDA_GPIO21
- GPIO18
- CS_GPIO5
- GPIO4
- GPIO2
- LRCL_GPIO15

RELAY MODULE
- IN, GPIO23, Q2 2N2222A, GND_5V
- 5V, GND_5V, IN, COM, NO
- 2.54mm2*5p
- H10: GND_5V, NO, 1.27-1*2P

PCA9685 Servo Driver (H5)
- +5V
- 3.3V
- SDA_GPIO21
- SCL_GPIO22
- OE_GND_5V
- GND_5V
- 2.54mm2*5p

DF_MINI_PLAYER
- 5V, RX, TX, DAC_R, GND_5V
- 2.54mm2*5p
- DAC_R, C1 100nF, R2 10K, R5 100k, L_INPUT
- GND_5V
- ESP32_TX, R4 1k, R3 10K, RX

H7
- 5V
- GND_5V
- LOUT+
- LOUT-
- L_INPUT
- 2.54mm2*5p

ICS43434 I2S Microphone (H8)
- GND_3V
- 3.3V
- GND_3V
- BCLK_GPIO14
- LRCL_GPIO15
- DOUT_GPIO32
- C2 100nF, GND_3V
- 2.54mm2*5p

Schematic	Schematic1	Create at	2025-09-24
		Update at	2025-09-24
Board	Board1	Page	P1
Drawn			
Reviewed		tumkibot_new	
	Version	Size	Page 1 Total 1
	V1.0	A4	EasyEDA.com

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