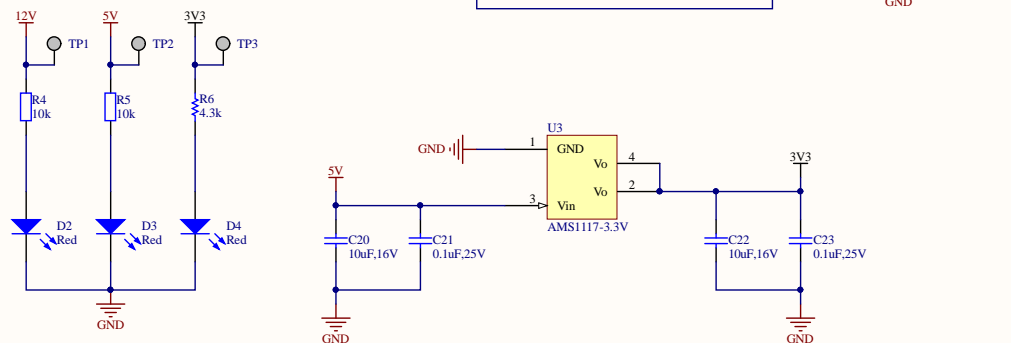
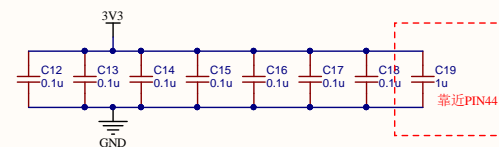
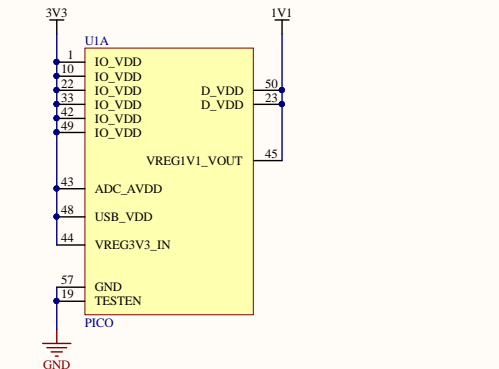


The schematic diagram illustrates the TPS54331DR evaluation board. Key components and their connections are as follows:

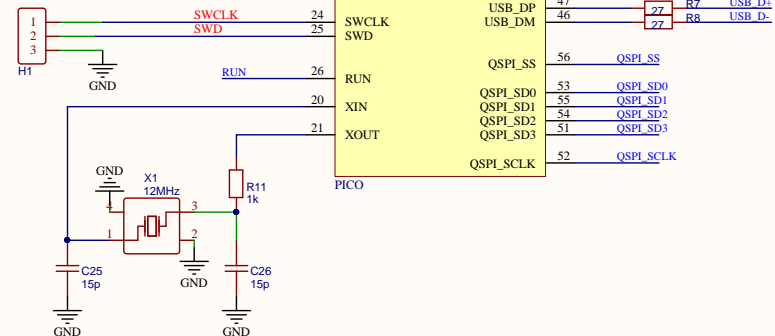
- Power Input:** A 12V input is connected to the board. A 5V output is also shown.
- DC-DC Converter:** The TPS54331DR is configured with VIN connected to the 12V input, VSENSE connected to the output, and EN connected to the 5V output.
- MOSFET and Diode:** The MOSFET (SS34) is driven by the converter's output. The diode (SS34) is connected in parallel with the MOSFET's drain.
- Passive Components:**
  - Capacitors: C1 (0.1uF, 25V), C2 (10uF, 10V), C3 (0.1uF, 10V), C6 (4.7nF), and C8 (39pF).
  - Inductor: L1 (6.8uH).
  - Resistors: R1 (10k), R2 (49.9k), and R3 (1.91k).



Pinout diagram for the TYPE-302-BRP103C-08 connector. The diagram shows a 13-pin connector with pins numbered 1 through 13. Pin 1 is GND. Pin 2 is USB1. Pin 3 is SHELL. Pin 4 is SHELL. Pin 5 is SHELL. Pin 6 is SHELL. Pin 7 is DP2. Pin 8 is DP1. Pin 9 is DP2. Pin 10 is CC1. Pin 11 is VBUS. Pin 12 is VBUS. Pin 13 is GND. The diagram also shows the internal wiring of the connector, including the USB D+ and D- lines, and the VBUS and CC1 lines.



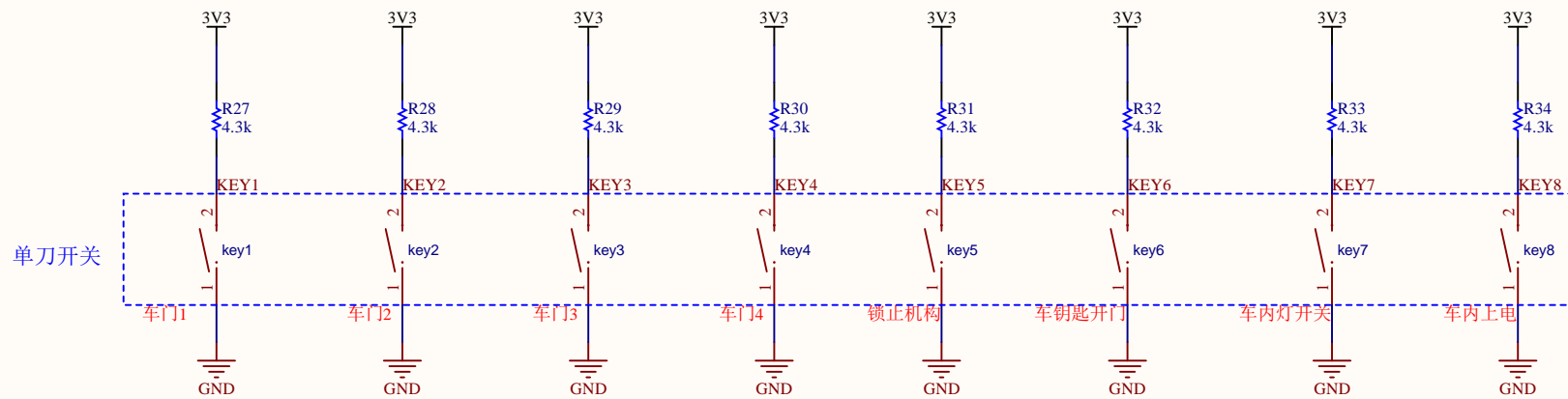
	U1B				
tll_tx	2	GPIO0	GP1016	27	D_GAS
tll_rx	3	GPIO1	GP1017	28	LED5
D_WS2R12	4	GPIO2	GP1018	29	SPL_CLK
KEY1	5	GPIO3	GP1019	30	SPL_MOSI
C_RX1	6	GPIO4	GP1020	31	SPL_DC
C_TX1	7	GPIO5	GP1021	32	SPL_RST
V_SDA	8	GPIO6		34	LED1
V_SCL	9	GPIO7	GP1022	35	LED2
A_SDA	11		GP1023	36	LED3
A_SCL	12	GPIO8	GP1024	37	LED4
KEY2	13	GPIO9	GP1025		
KEY3	14	GPIO10		38	ADC_LUX
KEY4	15	GPIO11	GPI026_ADC0	39	ADC_GAS
KEY5	16	GPIO12	GPI027_ADC1	40	KEYS
KEY6	17	GPIO13	GPI028_ADC2	41	Vsys
KEY7	18	GPIO14	GPI029_ADC3		
		GPIO15			
SWCLK	24	SWCLK	USB_DP	47	R7 USB D+
SWD	25	SWD	USB_DM	46	27 R8 USB D-
RUN	26	RUN	QSPI_SS	56	QSPI SS
	20	XIN	QSPI_SD0	53	QSPI SD0
			QSPI_SD1	55	QSPI SD1
			QSPI_SD2	54	QSPI SD2
	21	XOUT	QSPI_SD3	51	QSPI SD3
			QSPI_SCLK	52	QSPI SCLK
R11		PICO			



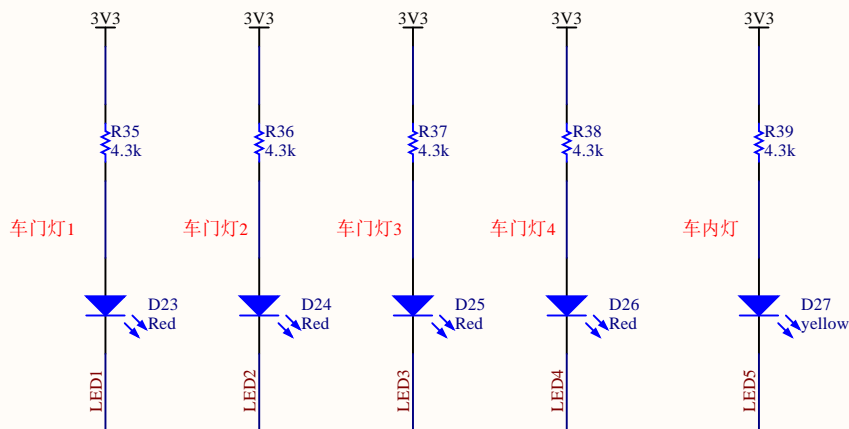
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# 车门控制子系统

## KEYPAD



## LED

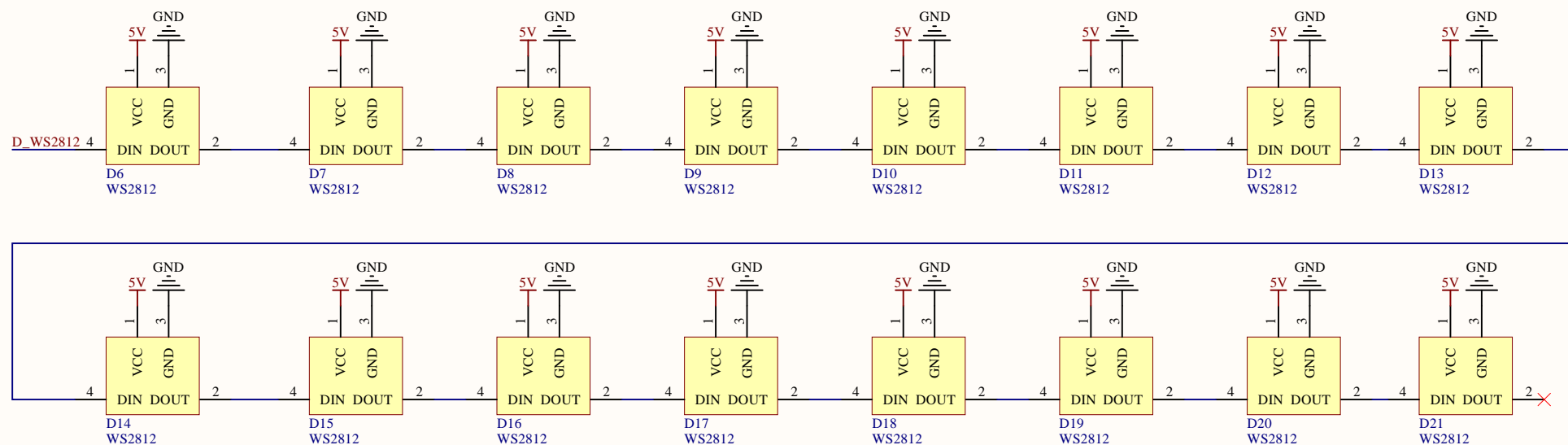
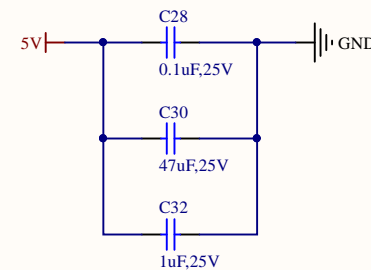
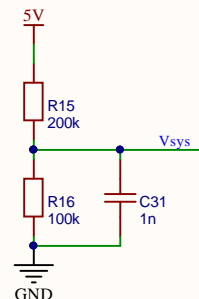
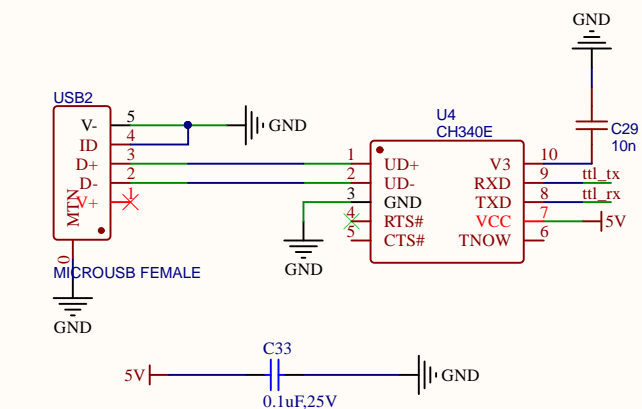


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# SERIAL

# Vsys

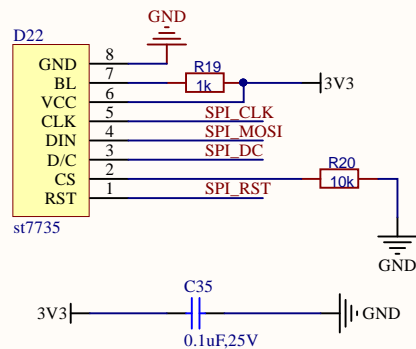
# WS2812



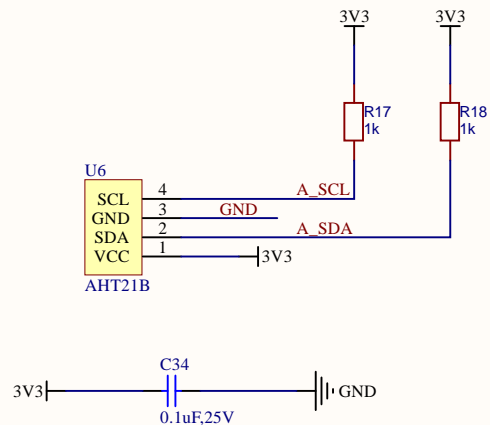
# 固定孔

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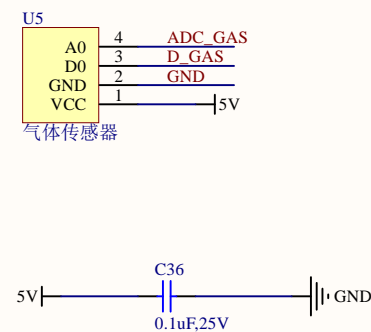
# DISPLAY



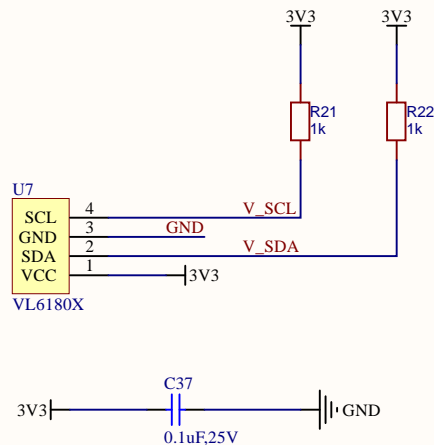
# TEMP/HUT



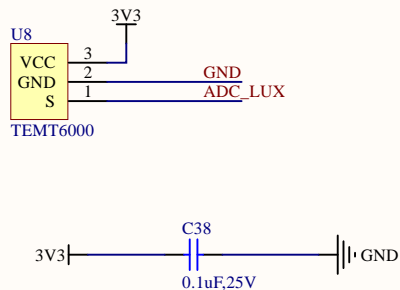
# GAS



# DIS



# LUX



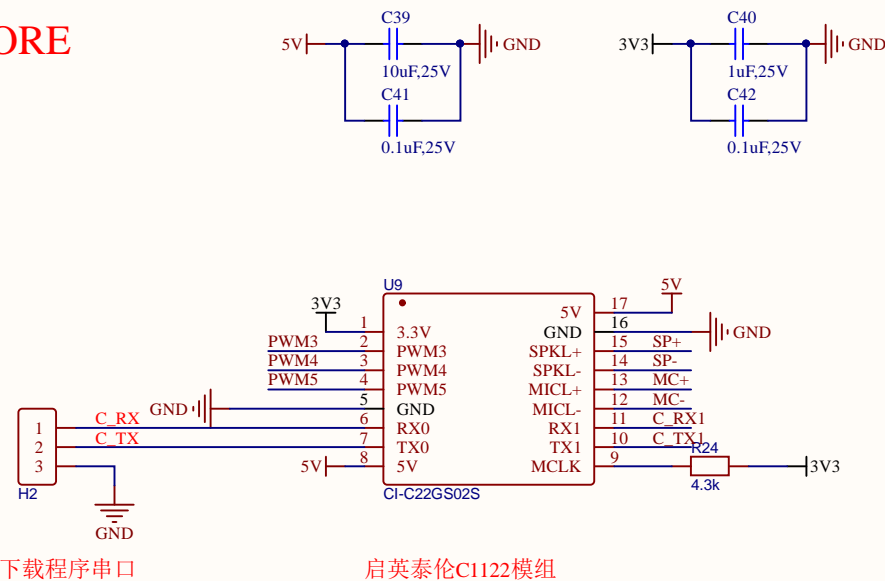
## 环境监测系统

- 1.ST7735显示模块
- 2.温湿度模块
- 3.气体传感器
- 4.距离传感器
- 5.环境光强传感器

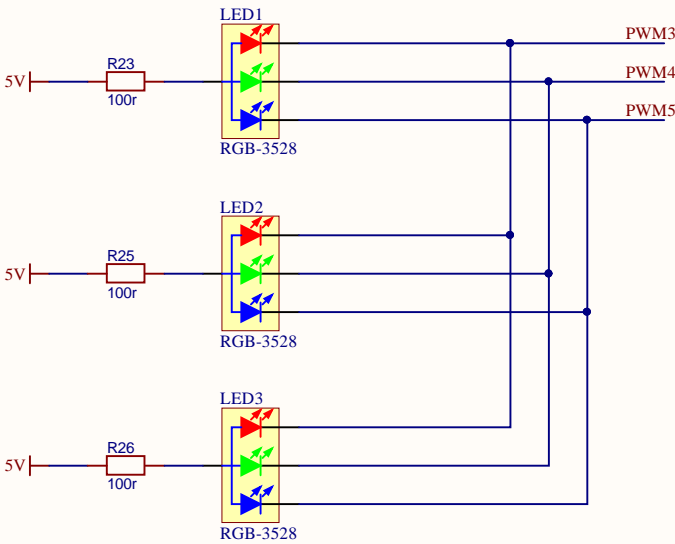
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# C1122语音识别系统

## CORE



## LED



## 连接件



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