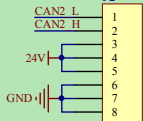
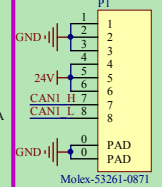


CAN和24V输入输出



状态指示灯

LED1

3.3V

1

2

4

3

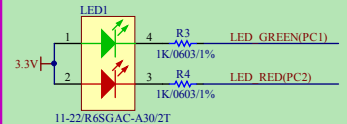
R3
1K/0603/1%

LED GREEN(PC1)

R4
1K/0603/1%

LED RED(PC2)

11-22 R6SGAC-A30-2T



SWD调试接口

3.3V

R1 10K/0603/5%

R2 10K/0603/5%

3.3V

GND

SWCLK(PA14)

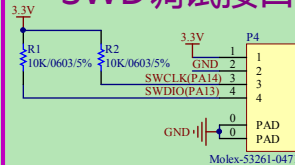
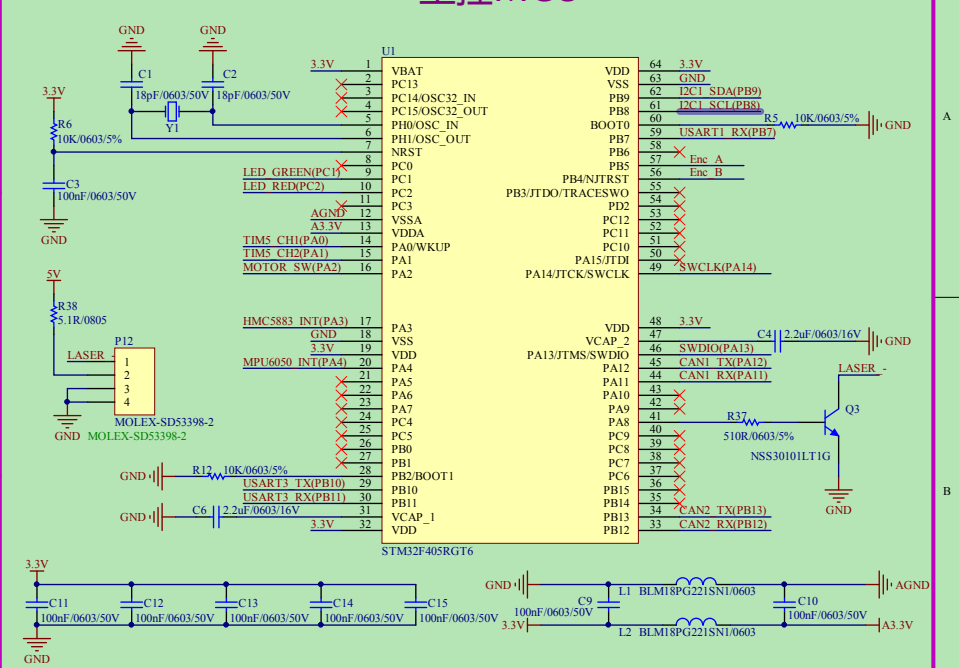
SWDIO(PA13)

P4	
1	GND
2	SWCLK(PA14)
3	SWDIO(PA13)
4	GND

GND

PAD
PAD

Molex-53261-0471

[illegible]

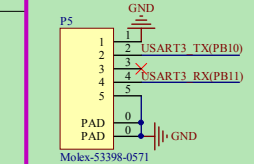
串口调试接口

Diagram illustrating the pin connections for the Molex-53398-0571 serial debug interface:

- Pin 1: GND
- Pin 2: USART3_TX (PB10)
- Pin 3: USART3_RX (PB11) (Note: The connection line is crossed out with a red 'X')
- Pin 4: GND
- Pin 5: GND

The connector is labeled P5 and PAD PAD.

Molex-53398-0571



单方向电机驱动电路

The diagram illustrates a unidirectional motor drive circuit. The input signal, labeled "MOTOR SW(PA2)", passes through a resistor R8 (4.7K/0603/1%) to the base of a PNP transistor Q1 (PMBT3904). The emitter of Q1 is connected to GND. The collector of Q1 drives the gate of a MOSFET U2 (AO4407) through a resistor R7 (10K/0603/5%). The source of U2 is connected to GND via a capacitor C5 (10uF/1210/50V). The drain of U2 is connected to one terminal of the motor, which is also connected to a 12V supply. The other terminal of the motor is connected to GND. A 5V supply is shown at the bottom right, connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 0, and PAD of a component labeled P6. The component P6 is identified as BM08B-GHS-TBT.

12V

10K/0603/5%

R7

U2

4

PMBT3904

Q1

AO4407

C5

10uF/1210/50V

MOTOR SW(PA2)

R8

4.7K/0603/1%

R10

2.2K/0603/1%

GND

5V

1

2

3

4

5

6

7

8

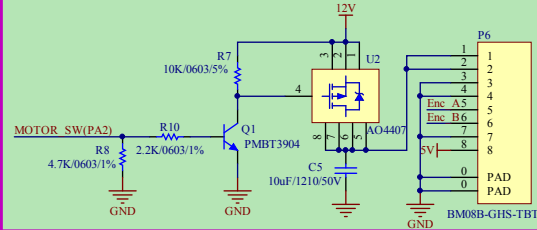
0

PAD

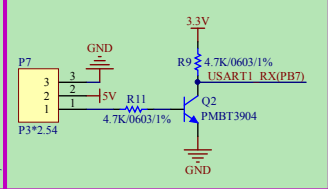
PAD

P6


BM08B-GHS-TBT



遥控器DBUS接口

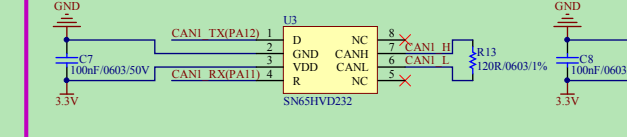


CAN1通信接口

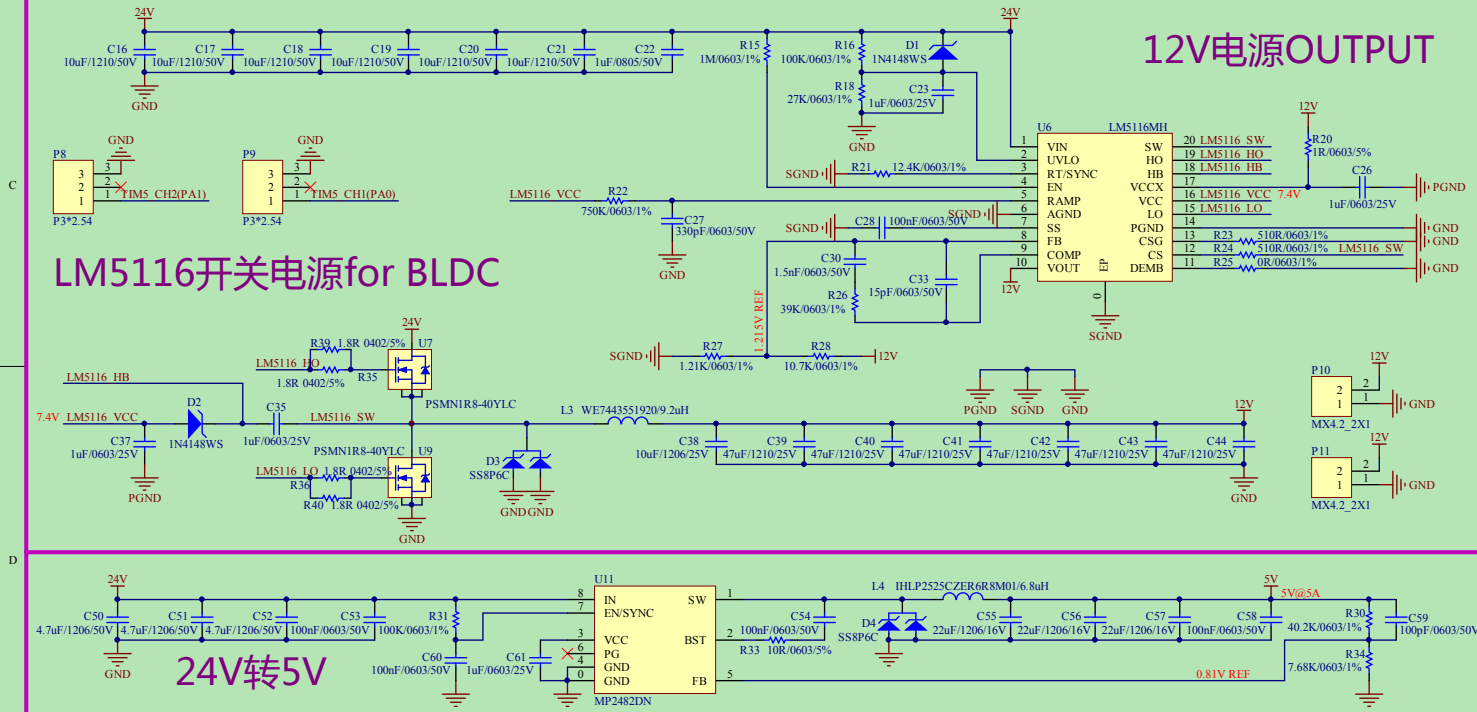
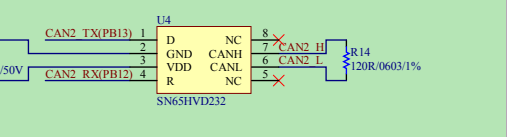
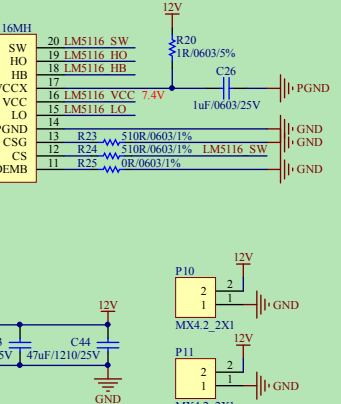


该图展示了CAN1通信接口的电路原理图。核心器件是SN65HVD232芯片，其引脚连接如下：

- 引脚1 (TXPA12) 和 引脚4 (RXPA11)：**通过100nF/0603/50V的陶瓷电容（C7和C8）连接到GND，并连接到3.3V电源。
- 引脚2 (NC) 和 引脚3 (VDD)：**连接到GND。
- 引脚5 (R) 和 引脚6 (CAN1 L)：**通过120R/0603/1%的电阻（R13）连接到GND。
- 引脚7 (CAN1 H) 和 引脚8 (NC)：**通过120R/0603/1%的电阻（R13）连接到GND。



CAN2通信接口

[illegible]

The image displays three detailed circuit diagrams for different components, showing their pin connections and associated passive components.

Diagram 1: MPU6050
 This diagram shows the MPU6050 (U5) connected to a 3.3V supply. Key connections include:
 - **Power:** 3.3V to pins 8 (AUX_CL), 9 (AUX_DA), 10 (REGOUT), 11 (FSYNC), and 12 (INT). Ground (GND) is connected to pins 1 (GND), 2 (CLIN), 3 (NC), 4 (NC), 5 (NC), 6 (AUX_DA), 7 (AUX_CL), 17 (GND), 18 (GND), 19 (RESV), 20 (RESV), and 21 (RESV).
 - **Signal:** SDA (pin 24) and SCL (pin 23) are connected to a 3.3V supply through 10kΩ pull-up resistors (R17, R19).
 - **Capacitors:** C25 (10nF/0603/50V) on the 3.3V line, C29 (100nF/0603/50V) on the GND line, C24 (2.2nF/0603/50V) on the SDA line, C31 (100nF/0603/50V) on the VDD line, and C32 (1uF/0603/25V) on the VDD line.
 - **Other:** C34 (100nF/0603/16V) is connected to the SETP and SETC pins.

Diagram 2: HMC5883L
 This diagram shows the HMC5883L (U8) connected to a 3.3V supply. Key connections include:
 - **Power:** 3.3V to pins 1 (AUX_CL), 2 (AUX_DA), 3 (SCL), 4 (VDD), 5 (S1), 6 (NC), 7 (NC), 8 (SETC), 9 (GND), 10 (C1), 11 (SETP), 12 (SETC), 13 (GND), 14 (GND), 15 (INT(PA3)), 16 (AUX_DA), 17 (VDDIO), 18 (GND), 19 (GND), 20 (GND), 21 (GND), 22 (GND), 23 (GND), 24 (GND), 25 (GND), 26 (GND), 27 (GND), 28 (GND), 29 (GND), 30 (GND), 31 (GND), 32 (GND), 33 (GND), 34 (GND), 35 (GND), 36 (GND), 37 (GND), 38 (GND), 39 (GND), 40 (GND), 41 (GND), 42 (GND), 43 (GND), 44 (GND), 45 (GND), 46 (GND), 47 (GND), 48 (GND), 49 (GND), 50 (GND), 51 (GND), 52 (GND), 53 (GND), 54 (GND), 55 (GND), 56 (GND), 57 (GND), 58 (GND), 59 (GND), 60 (GND), 61 (GND), 62 (GND), 63 (GND), 64 (GND), 65 (GND), 66 (GND), 67 (GND), 68 (GND), 69 (GND), 70 (GND), 71 (GND), 72 (GND), 73 (GND), 74 (GND), 75 (GND), 76 (GND), 77 (GND), 78 (GND), 79 (GND), 80 (GND), 81 (GND), 82 (GND), 83 (GND), 84 (GND), 85 (GND), 86 (GND), 87 (GND), 88 (GND), 89 (GND), 90 (GND), 91 (GND), 92 (GND), 93 (GND), 94 (GND), 95 (GND), 96 (GND), 97 (GND), 98 (GND), 99 (GND), 100 (GND).
 - **Capacitors:** C36 (100nF/0603/50V) on the 3.3V line, C45 (100nF/0603/50V) on the GND line, C46 (4.7uF/0603/16V) on the GND line.

Diagram 3: MIC3975YM
 This diagram shows the MIC3975YM (U10) connected to a 5V supply. Key connections include:
 - **Power:** 5V to pin 1 (IN). 3.3V@750mA is connected to pin 2 (EN).
 - **Signal:** OUT (pin 4) is connected to a 3.3V supply through a 22uF/1206/16V capacitor (C48).
 - **Capacitors:** C47 (22uF/1206/16V) on the 5V line, C48 (22uF/1206/16V) on the 3.3V line, C49 (100nF/0603/50V) on the GND line.
 - **Other:** R29 (40.2K/0603/1%) and R32 (24.3K/0603/1%) are connected to the ADJ (pin 3) pin.

