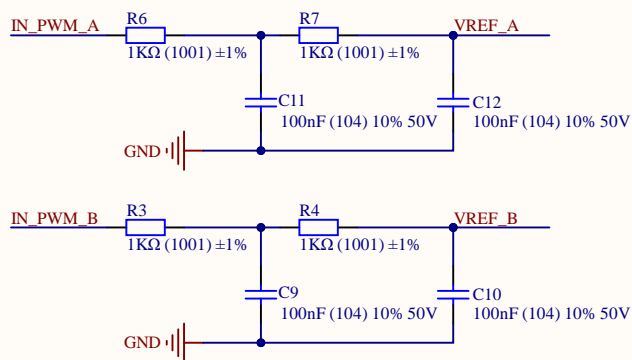
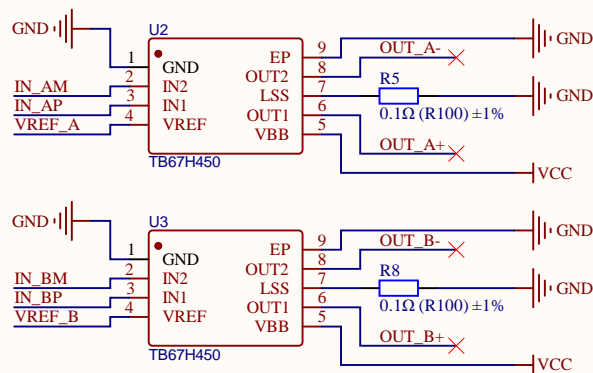


- 1.二阶滤波器，使用0Ω电阻可配置为一阶滤波器
2.电路空间充足时，可采用其他无源/有源滤波器
3.改用带DAC的单片机时，可直接使用DAC带运放输出



- 1.采样电阻0.1Ω，3.3V信号输入，最大输出3.3A



OUT_B- 矩形焊盘
OUT_B+ 矩形焊盘
OUT_A- 矩形焊盘
OUT_A+ 矩形焊盘

Title XDrive Drive: 本文件绘制功率驱动部分		
Size A4	Number 知驭电机实验室: QQ 857046846 艾维斯实验室: QQ 557214000	Revision H1.1b
Date: 11/30/2020	Sheet of	
File: D:\XDrive\...\Drive.SchDoc	Drawn By: 知不知啊	

信号接口
传感器
功率输出
用户界面
系统

POWER_U 10
POWER_I 11
IN_BM 12
IN_BP 13
IN_AM 14
IN_AP 15
SIGNAL_PUL 16
SIGNAL_DIR 17

OLED_DC 29
OLED_RES 30
OLED_CS 31
USB_DM 32
USB_DP 33
SWDIO 34
SWCLK 35
MT6816_CS 36

CAN_SILENT 2
RS485_DIR 3
PC13-TAMPER-RTC PD0-OSC_IN 5
PC14-OSC32_IN PD1 6
PC15-OSC32_OUT 7

U1A

PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15

PC13-TAMPER-RTC PD0-OSC_IN 5
PC14-OSC32_IN PD1 6
PC15-OSC32_OUT 7

STM32F103CBT6

信号接口
传感器
功率输出
用户界面
系统

PB0 18 SIGNAL_ENA
PB1 19 SIGNAL_ALERT
PB2 20 BUTTON_DOWN
PB3 39 SPI1_SCK
PB4 40 SPI1_MISO
PB5 41 SPI1_MOSI
PB6 42 RS485_TX
PB7 43 RS485_RX

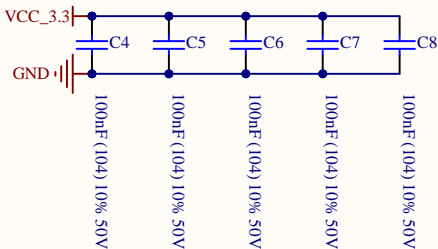
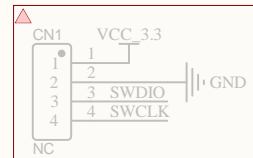
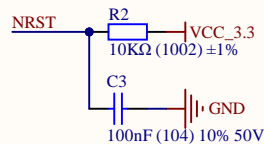
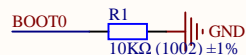
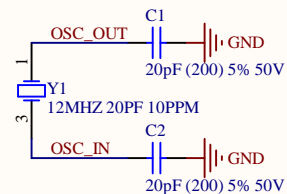
PB8 45 CAN_RX
PB9 46 CAN_TX
PB10 21 IN_PWM_B
PB11 22 IN_PWM_A
PB12 25 BUTTON_UP
PB13 26 SPI2_SCK
PB14 27 SPI2_MISO
PB15 28 SPI2_MOSI

OSC_IN 5
OSC_OUT 6
BOOT0 44
NRST 7

VCC_3.3 U1B

VBAT
VDD_1 VSS_1
VDD_2 VSS_2
VDD_3 VSS_3
VDDA VSSA

STM32F103CBT6



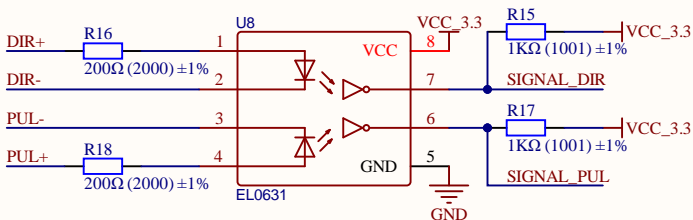
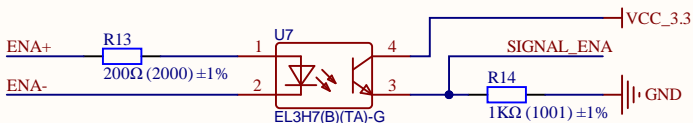
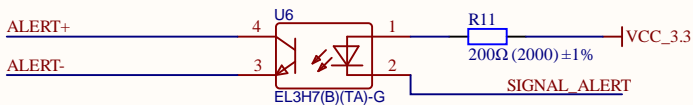
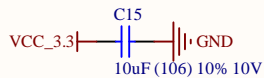
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Size A4	Number 知驭电机实验室: QQ 857046846 艾维斯实验室: QQ 557214000		Revision H1.1b
Date:	11/30/2020		Sheet of
File:	D:\XDrive\...\MCU.SchDoc		Drawn By: 知不知啊

1

2

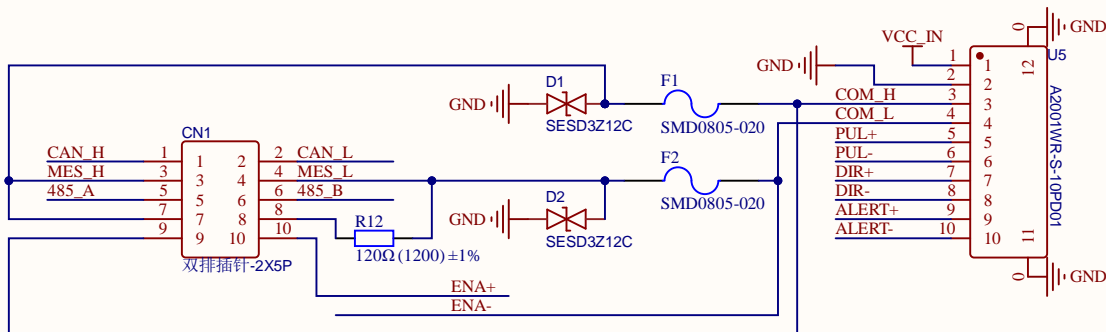
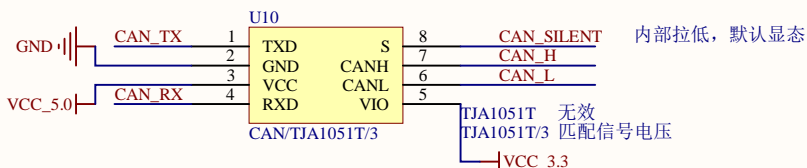
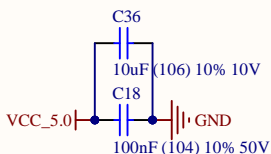
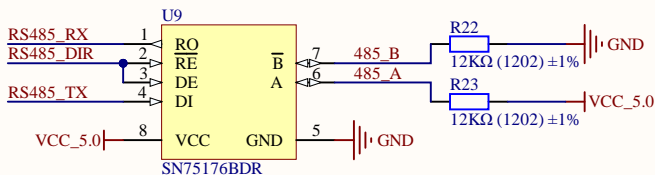
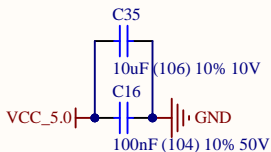
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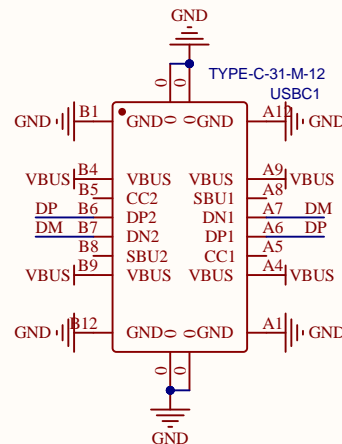
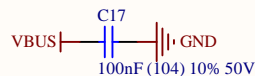
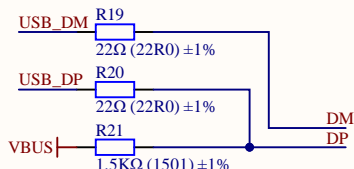


TLP2160 达林顿输出，无需上拉电阻
TLP2168 / EL0631 晶体管输出，需上拉电阻

CAN TJA1051T
RS485 SN75176BDR



通讯方式选择
终端电阻跳线 & ENA光耦跳线



Title
XDrive Port: 本文件绘制数据接口部分

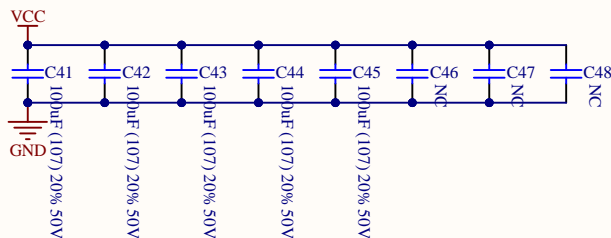
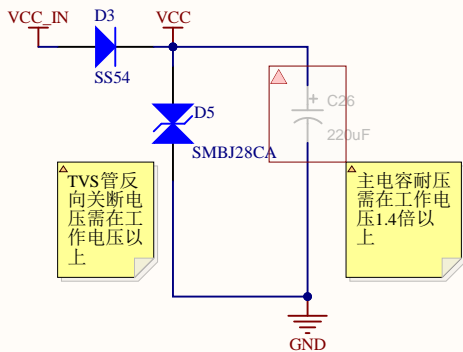
Size	Number	Revision
A4	知驭电机实验室: QQ 857046846 艾维斯实验室: QQ 557214000	H1.1b
Date:	11/30/2020	Sheet of
File:	D:\XDrive\...\Port.SchDoc	Drawn By: 知不知啊

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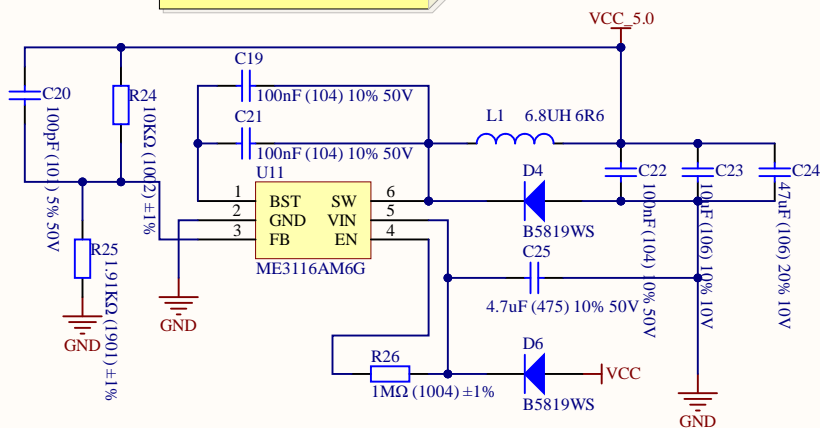
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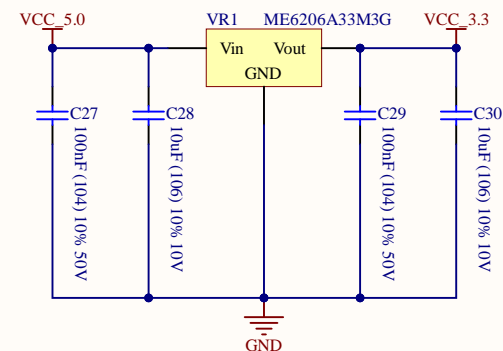
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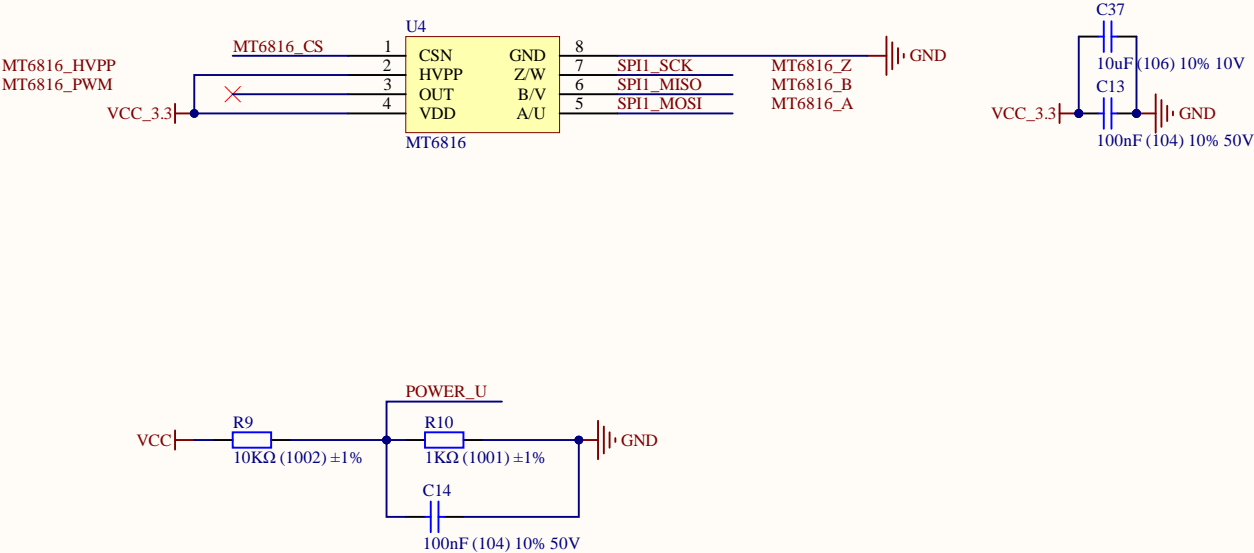
DCDC, 推荐型号
MP2451
MP2456
ME3116



低压差LDO, 推荐型号
ME6206A33M3G 6V 0.3A
XC6206P332MR 6V 0.2A



Title XDrive Power: 本文件绘制电源供电部分			
Size A4	Number 知驭电机实验室: QQ 857046846 艾维斯实验室: QQ 557214000	Revision H1.1b	
Date: 11/30/2020	Sheet of		
File: D:\XDrive\...\Power.SchDoc	Drawn By:		知不知啊



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Size A4	Number 知驭电机实验室：QQ 857046846 艾维斯实验室：QQ 557214000	Revision H1.1b
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File: D:\XDrive\...\Sensor.SchDoc	Drawn By: 知不知啊	

Board Stack Report