

野火_F407电机驱动控制板_原理图_V0.1

目录

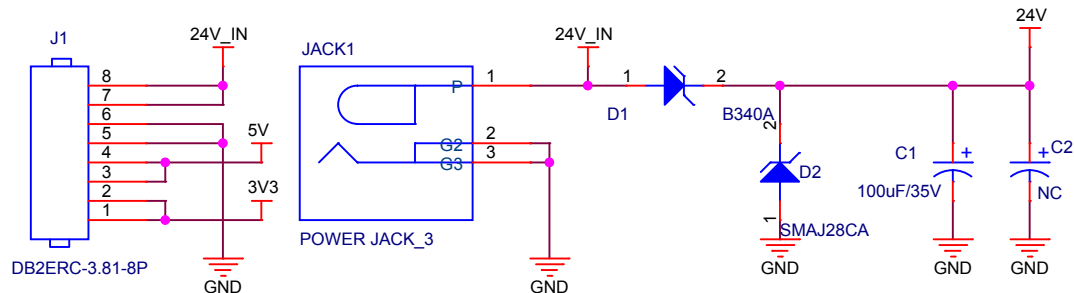
Page 1	目录
Page 2	历史版本
Page 3	主电源
Page 4	MCU_GPIO
Page 5	SPI闪存/EEPROM/启动模式
Page 6	串口/EBF Module/ISP
Page 7	CAN/RS485
Page 8	以太网
Page 9	传感器/按键/LED
Page 10	USB/SWD
Page 11	液晶屏/WIFI/ADC/SPI
Page 12	步进电机驱动接口
Page 13	BLDC/PMSM电机驱动接口
Page 14	通用输入输出口

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Title 野火_F407电机驱动控制板_原理图		
Size A4	Document Number 目录	Rev V1.0
Date: Wednesday, January 08, 2020	Sheet 1 of 14	

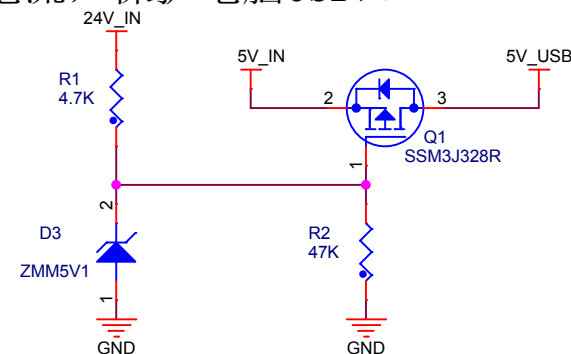
历史版本

版本号	日期	设计	描述
V0.1	2020-01-06	cancore	初始版本

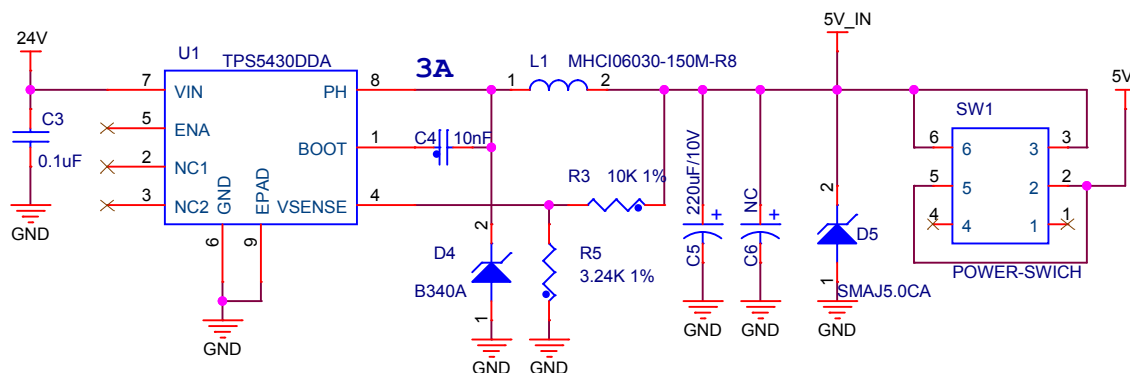
DC IN : 12V~24V



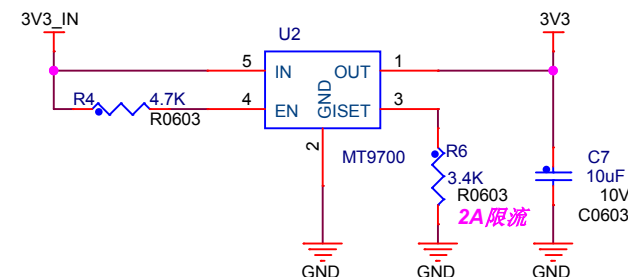
外部电源供电时断开USB供电，
防止灌电流，保护电脑USB口



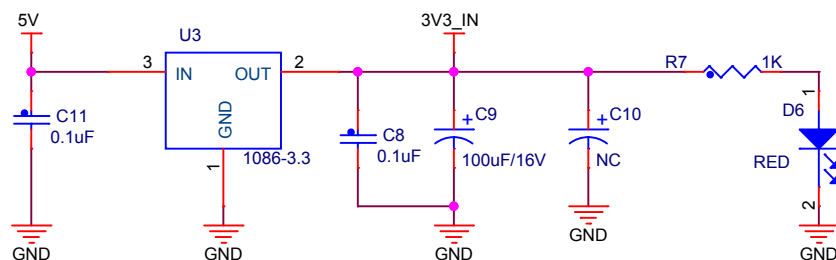
DC/DC 5V



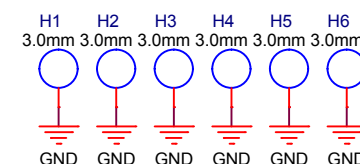
3.3v 输出过流保护



LDO 3.3V



定位孔



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Title

野火_F407电机驱动控制板_原理图

Size
A4

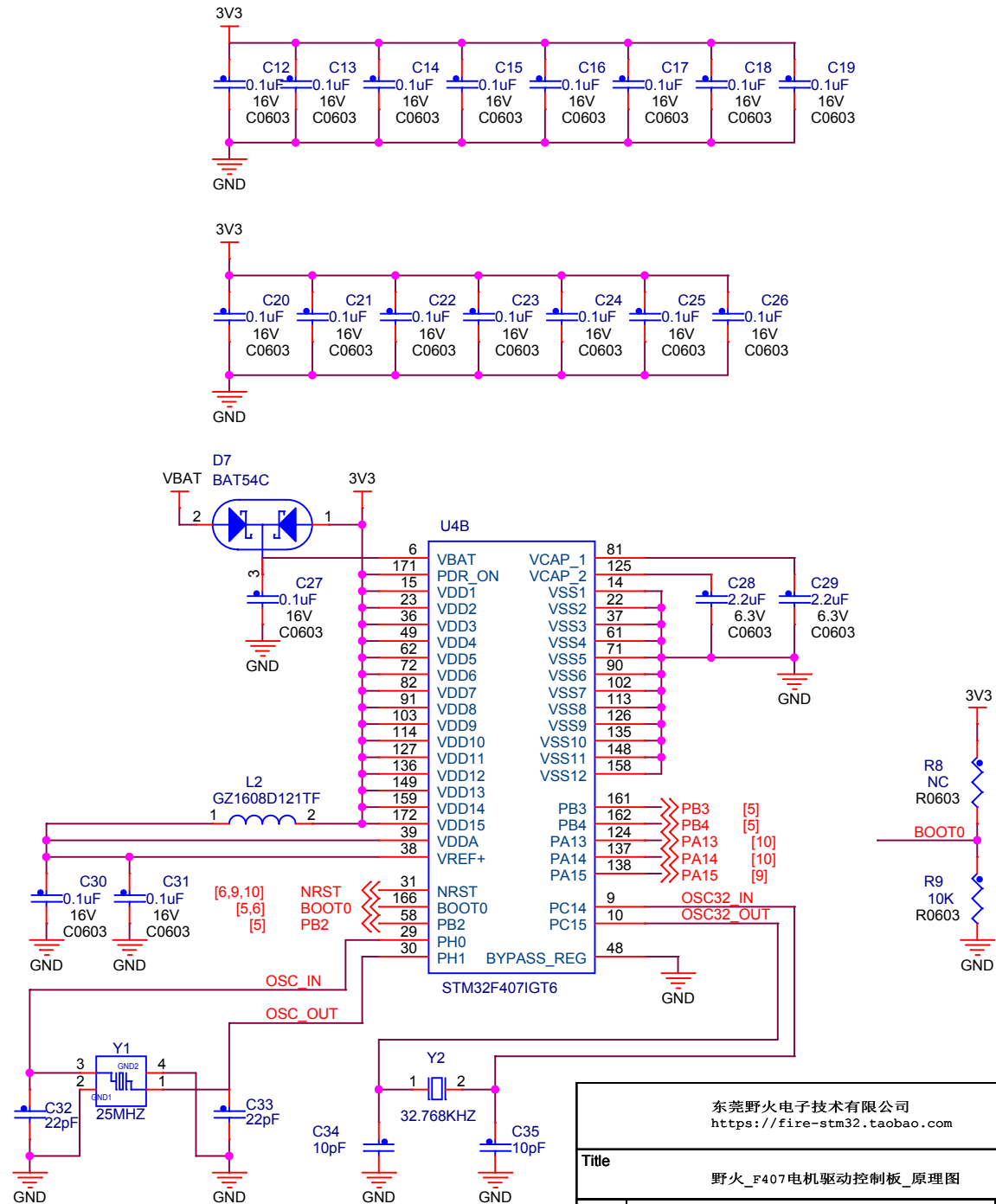
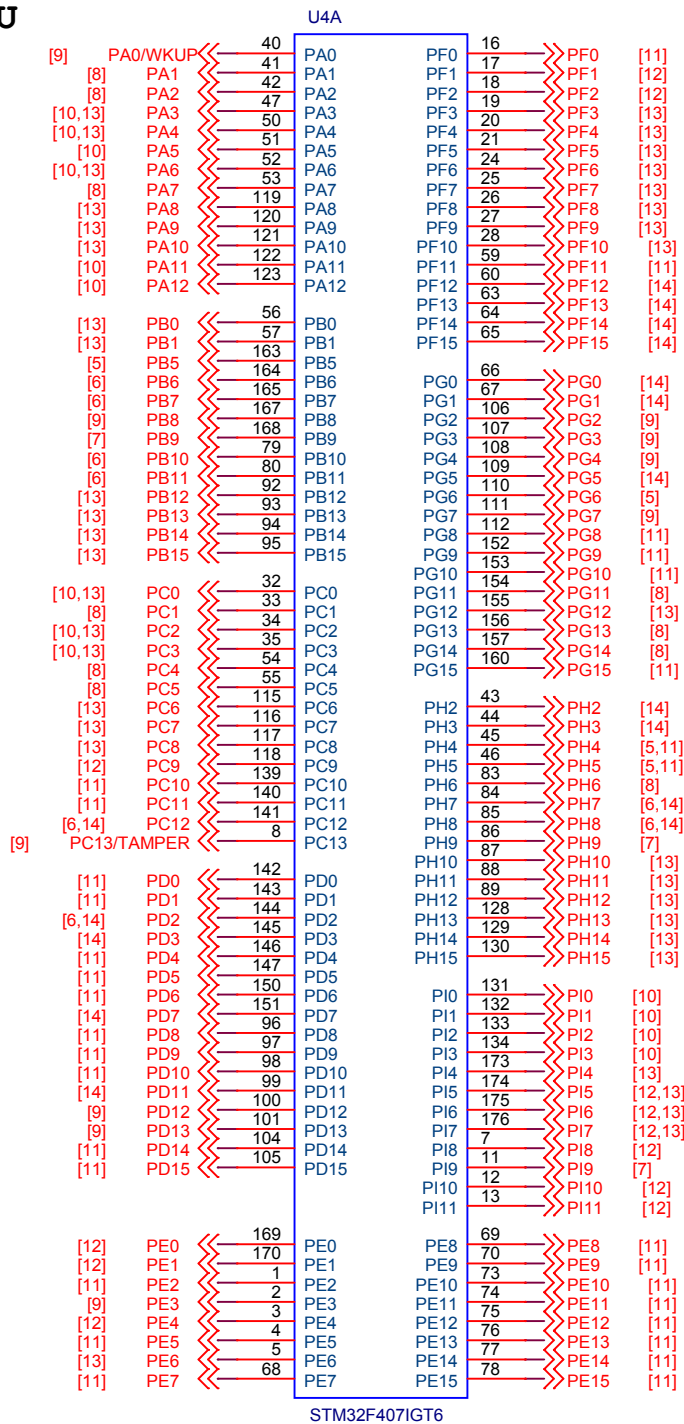
Document Number
电源供电

Rev
V1.0

Date: Wednesday, January 08, 2020

Sheet 3 of 14

MCU



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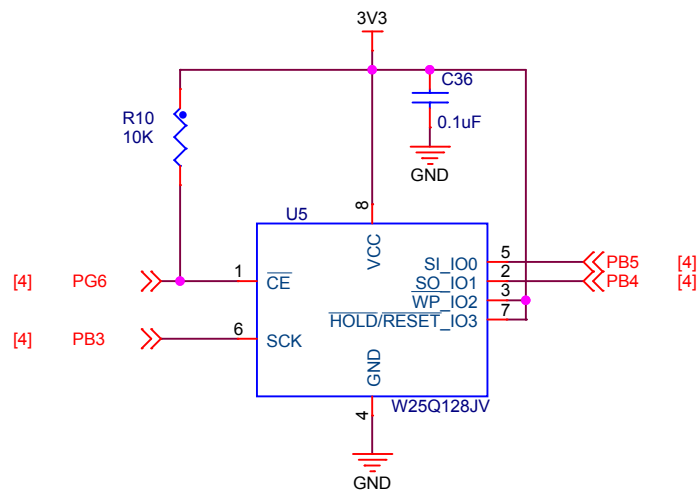
Title: 野火_F407电机驱动控制板_原理图

Size: A4	Document Number: MCU_GPIO	Rev: V1.0
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Date: Wednesday, January 08, 2020	Sheet 4 of 14
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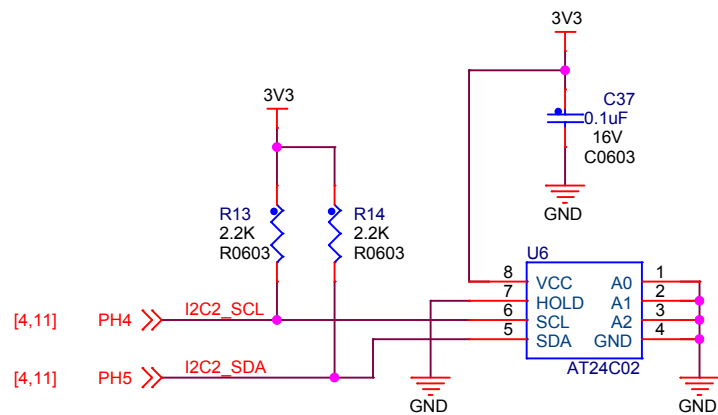
SPI_FLASH

容量：16M字节



EEPROM

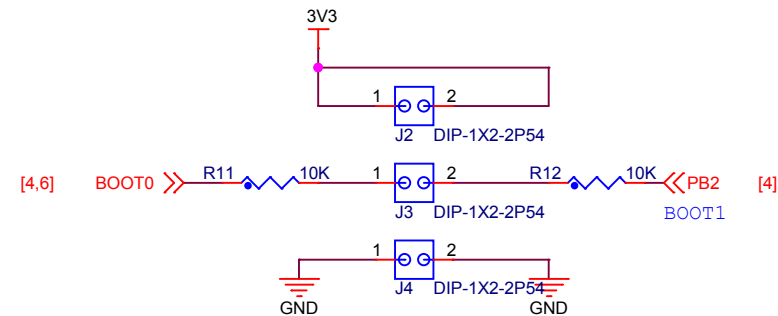
容量：256字节



设置启动模式

F407 BOOT设置

BOOT0	BOOT1	启动方式
0	X	用户闪存
1	0	系统存储器/ISP
1	1	内嵌SRAM
默认配置是用户闪存（即内部Flash）		



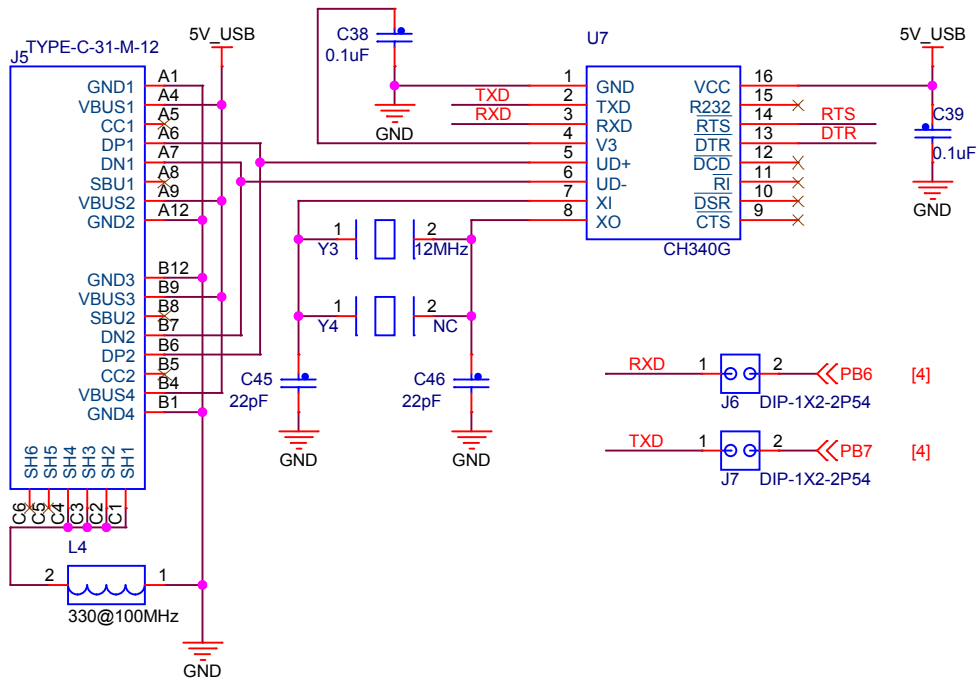
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Title
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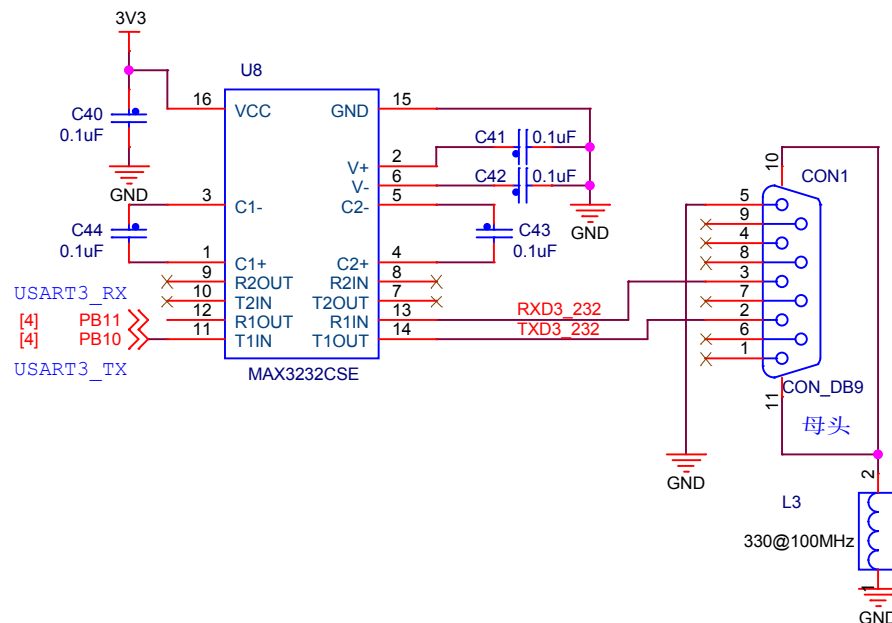
Size A4	Document Number FLASH/EEPROM/BOOT	Rev V1.0
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Date: Wednesday, January 08, 2020	Sheet 5 of 14
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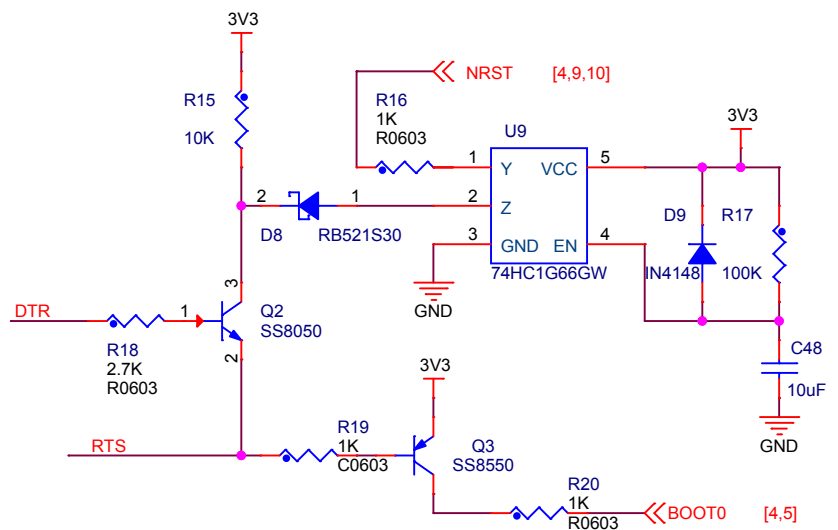
USB转串口



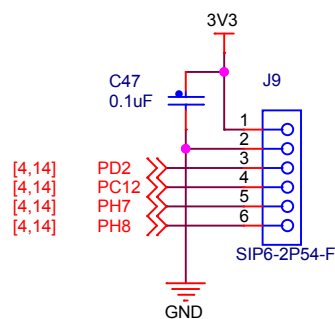
RS232串口



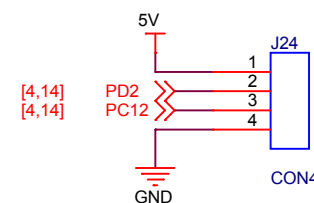
ISP一键下载电路



EBF-Module



串口屏接口



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Title
野火_F407电机驱动控制板_原理图

Size
A4

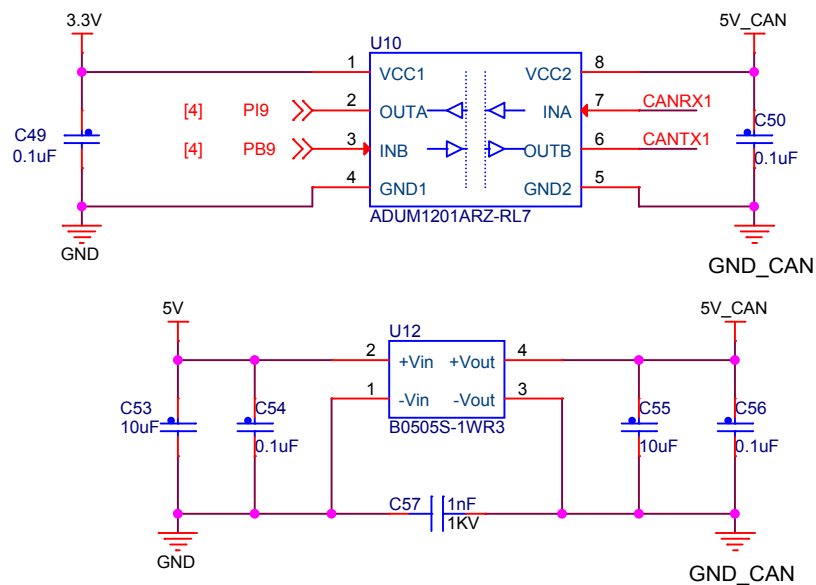
Document Number
UART/ISP/RS232

Rev
V1.0

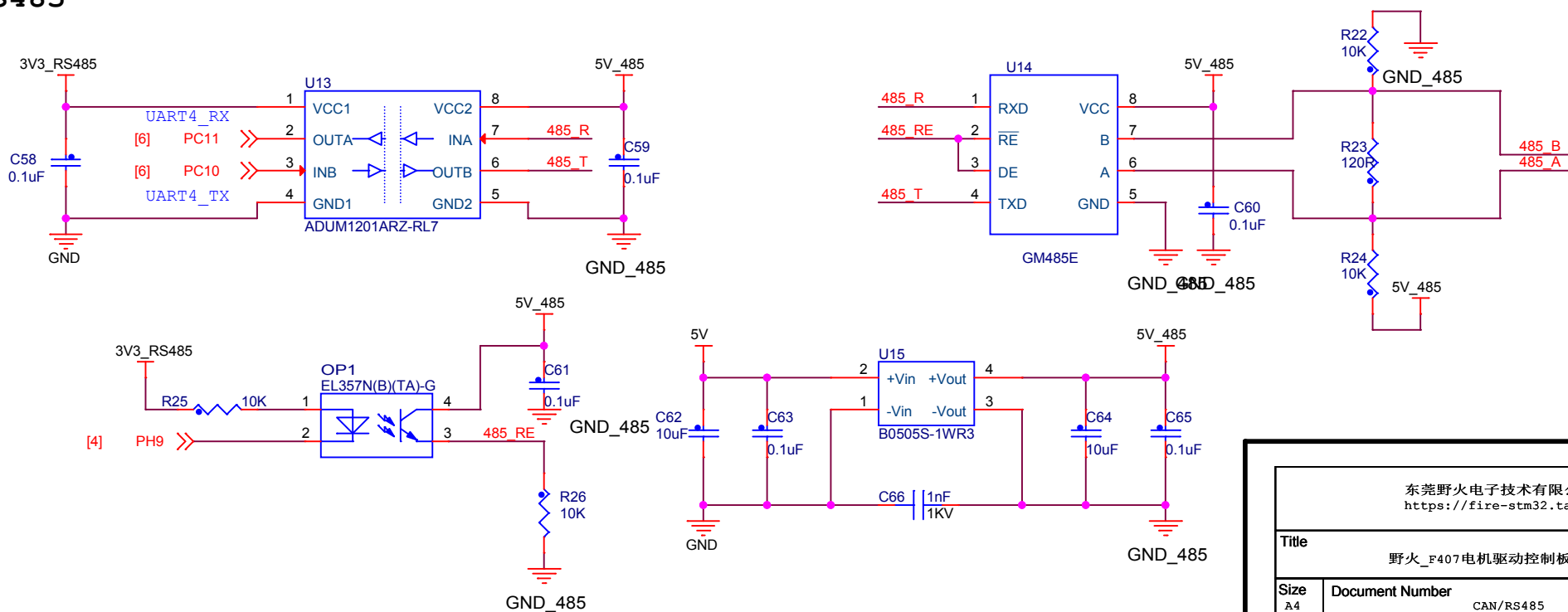
Date: Wednesday, January 08, 2020

Sheet 6 of 14

CAN



RS485



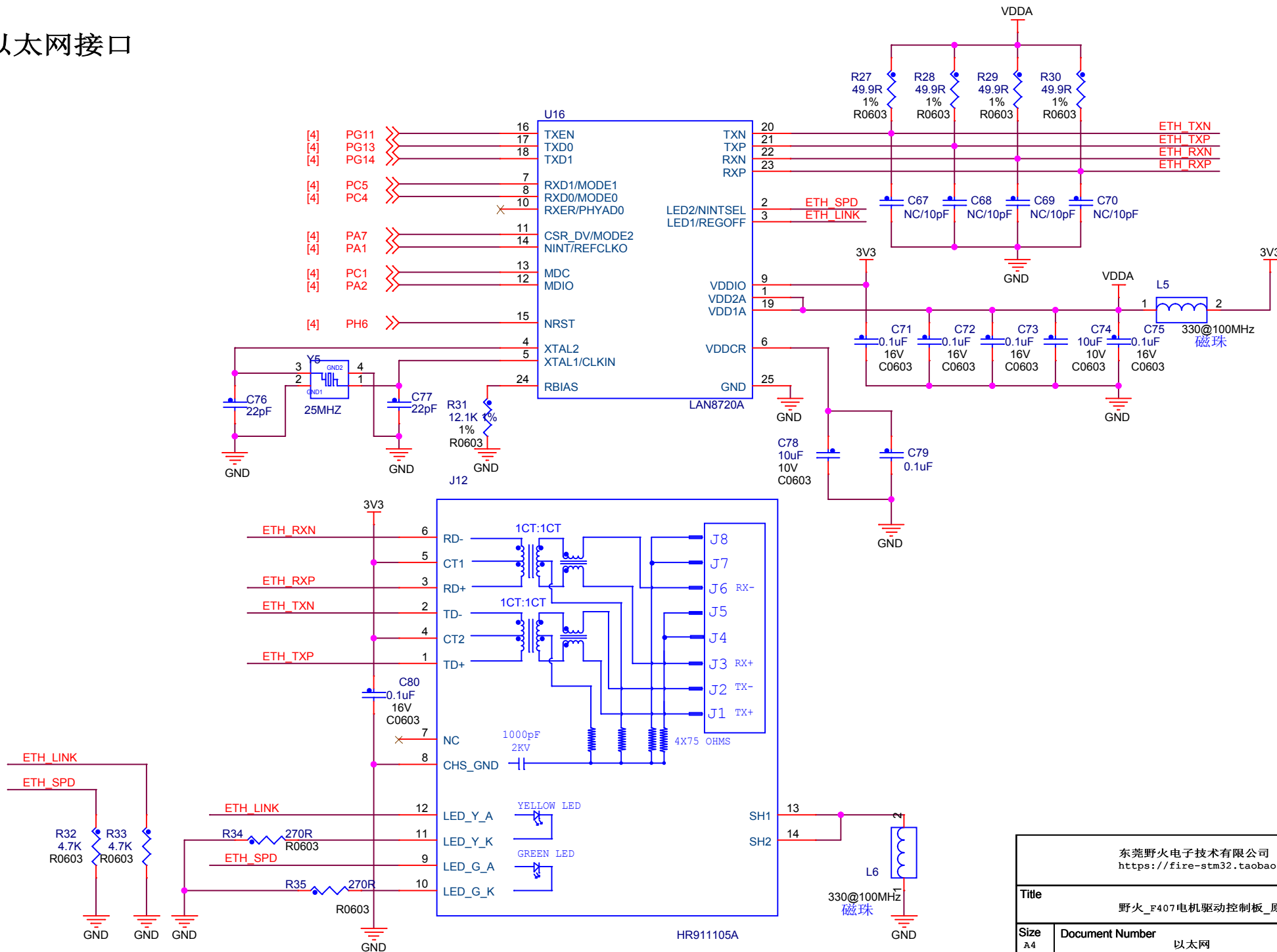
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Title
野火_F407电机驱动控制板_原理图

Size A4	Document Number CAN/RS485	Rev V1.0
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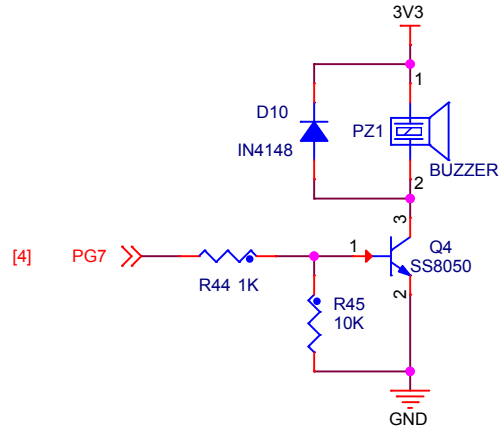
Date: Wednesday, January 08, 2020 Sheet 7 of 14

以太网接口

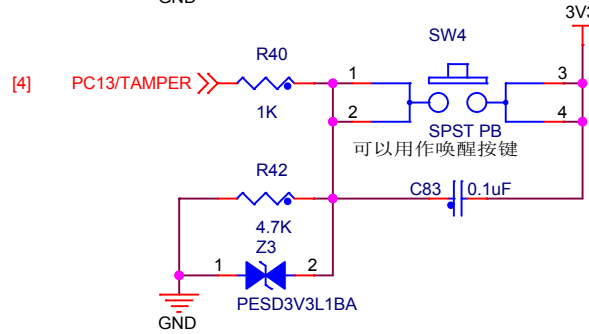
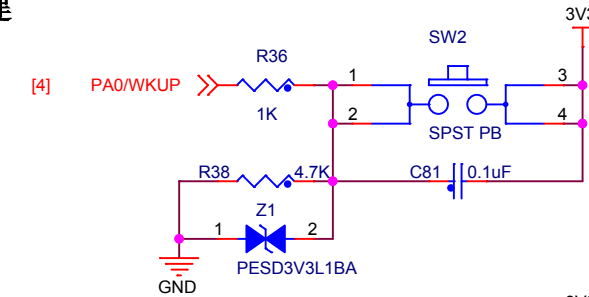


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Title 野火_F407电机驱动控制板_原理图		
Size A4	Document Number 以太网	Rev V1.0
Date: Wednesday, January 08, 2020	Sheet 8	of 14

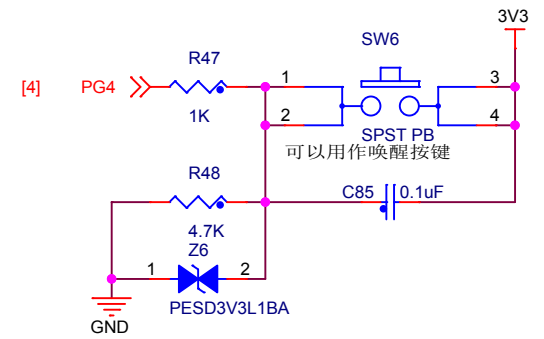
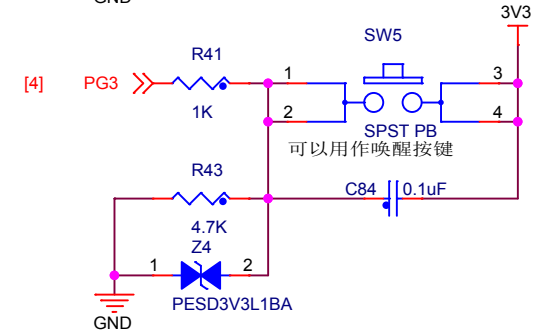
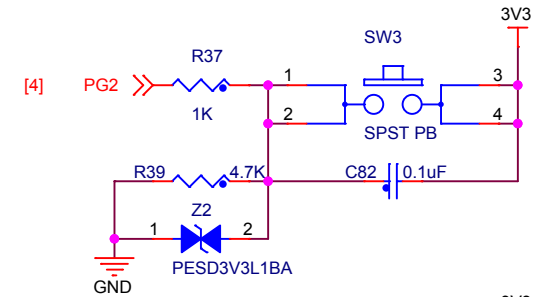
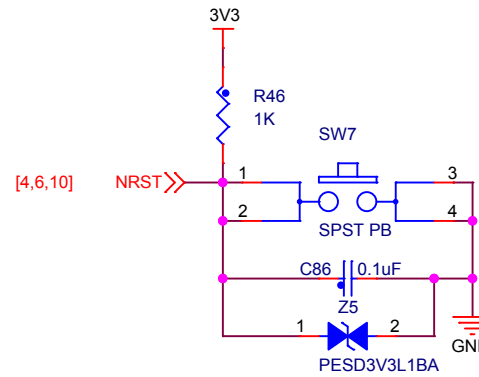
蜂鸣器



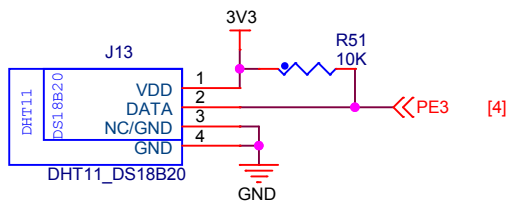
按键



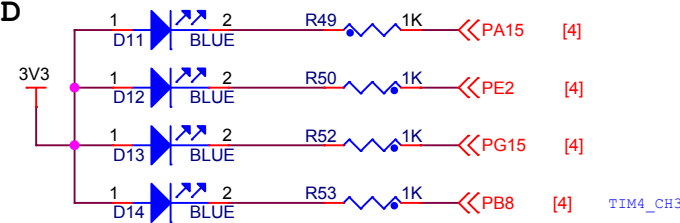
复位



温湿度传感器接口



LED



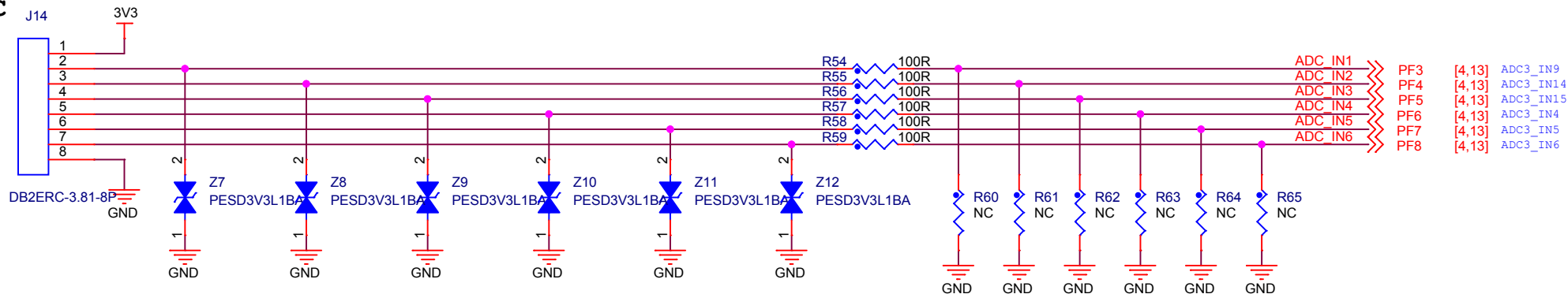
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Title
野火_F407电机驱动控制板_原理图

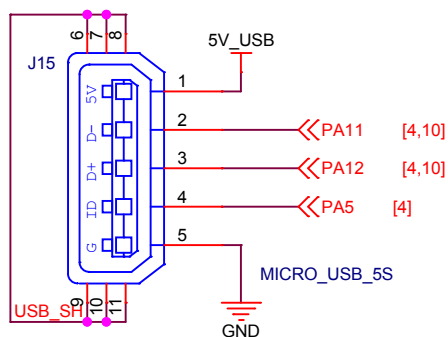
Size A4 Document Number KEY/LED/BEEP/SENSOR Rev V1.0

Date: Wednesday, January 08, 2020 Sheet 9 of 14

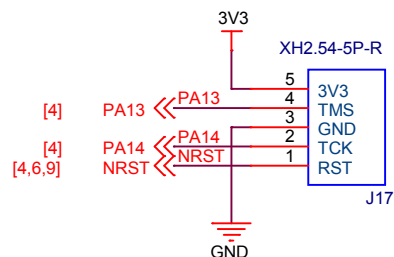
ADC



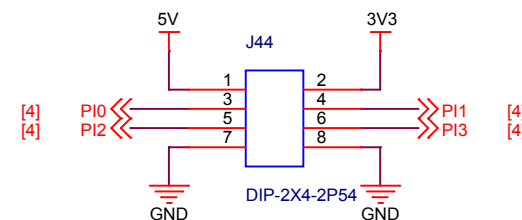
USB OTG



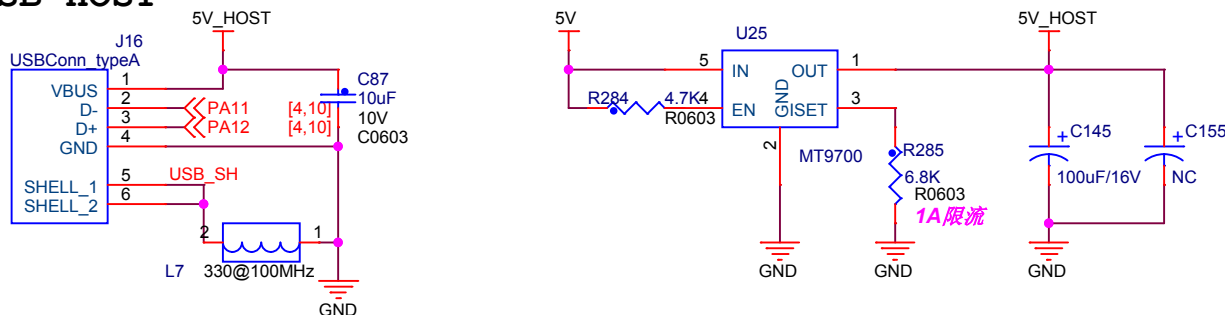
SWD调试口



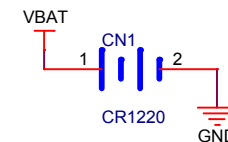
扩展SPI



USB HOST



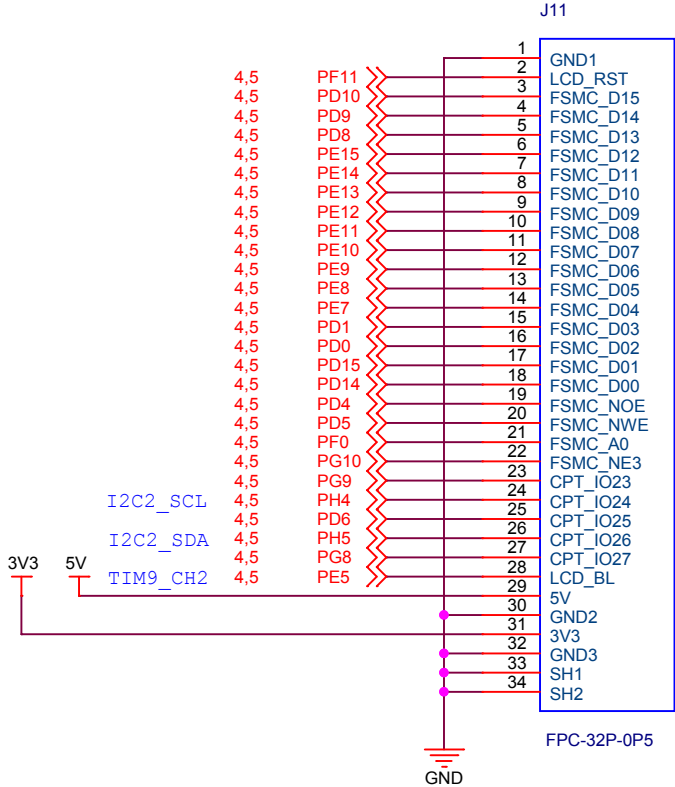
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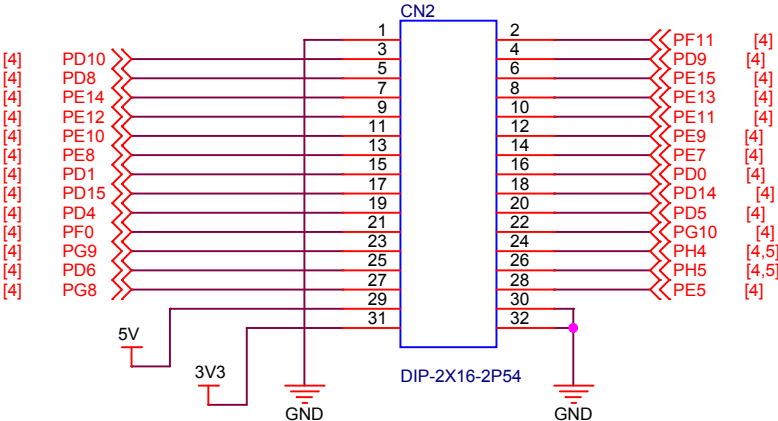
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Title 野火_F407电机驱动控制板_原理图		
Size A4	Document Number ADC/USB/SPI/SWD	Rev V1.0
Date: Wednesday, January 08, 2020	Sheet 10 of 14	

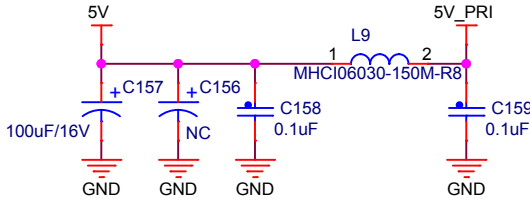
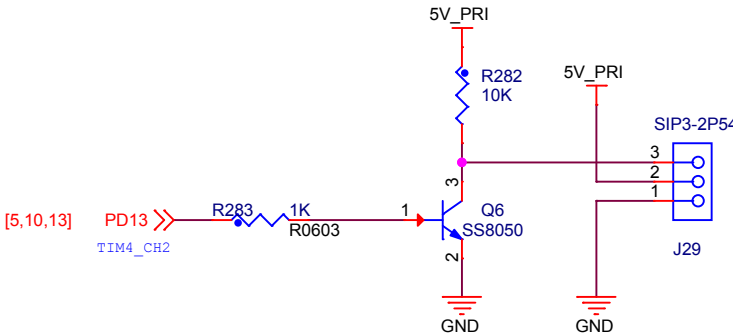
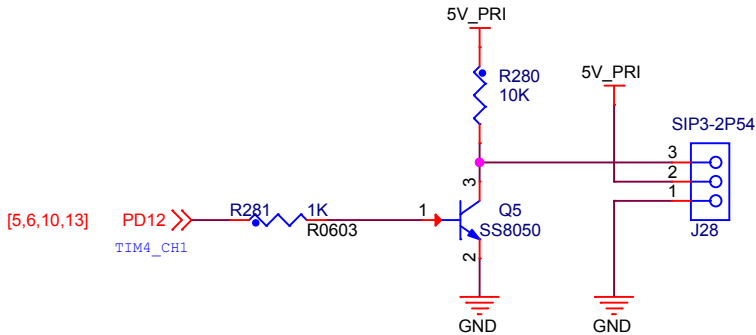
液晶接口-FSMC-8080模式



通用IO口与液晶复用

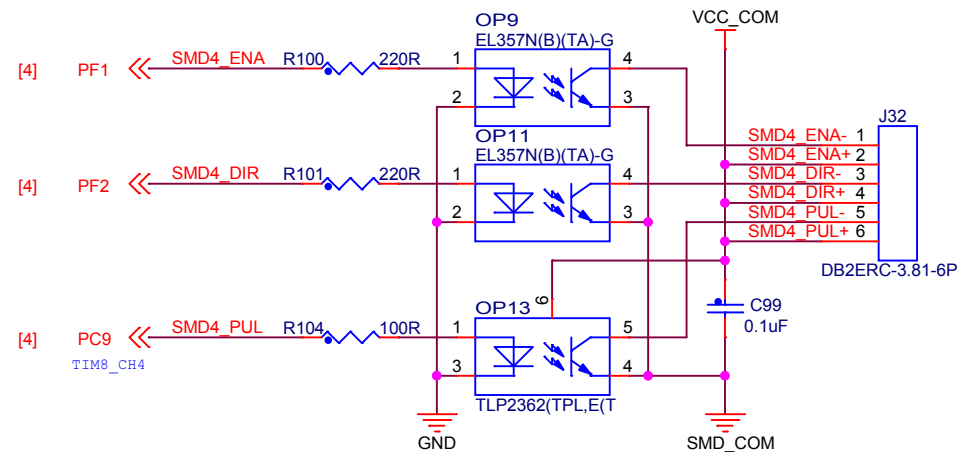
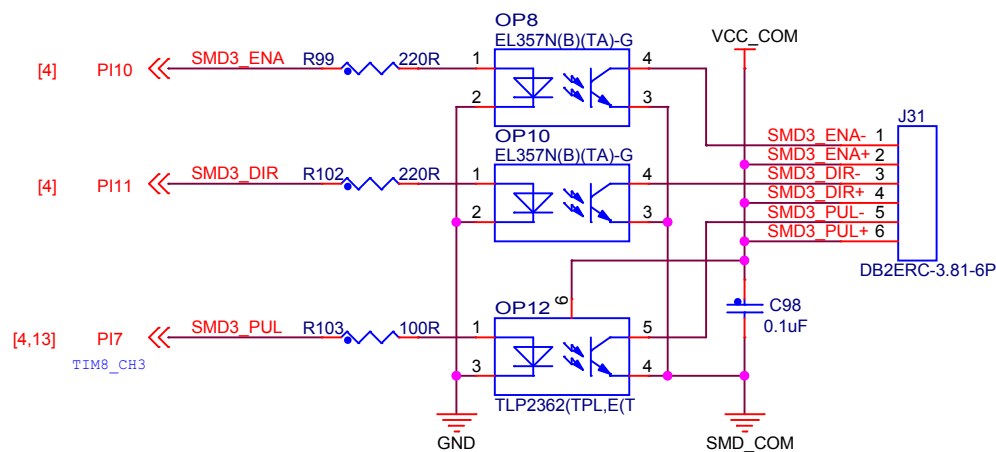
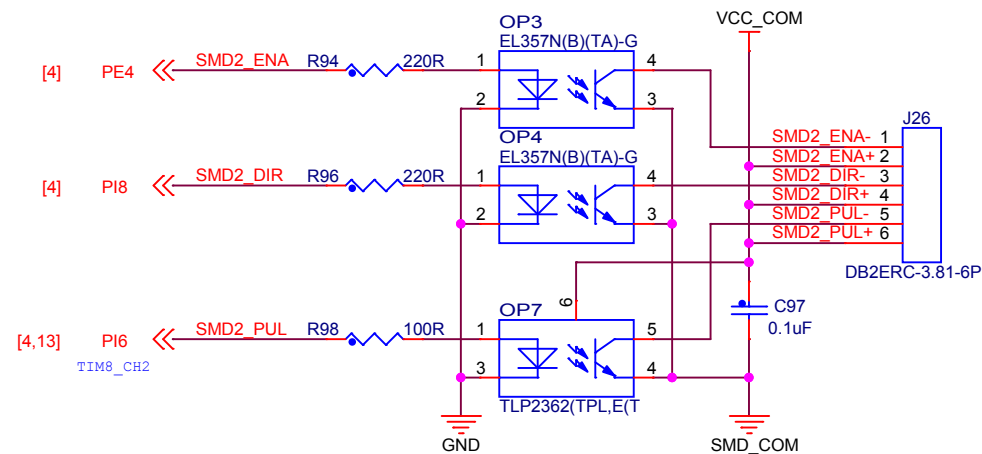
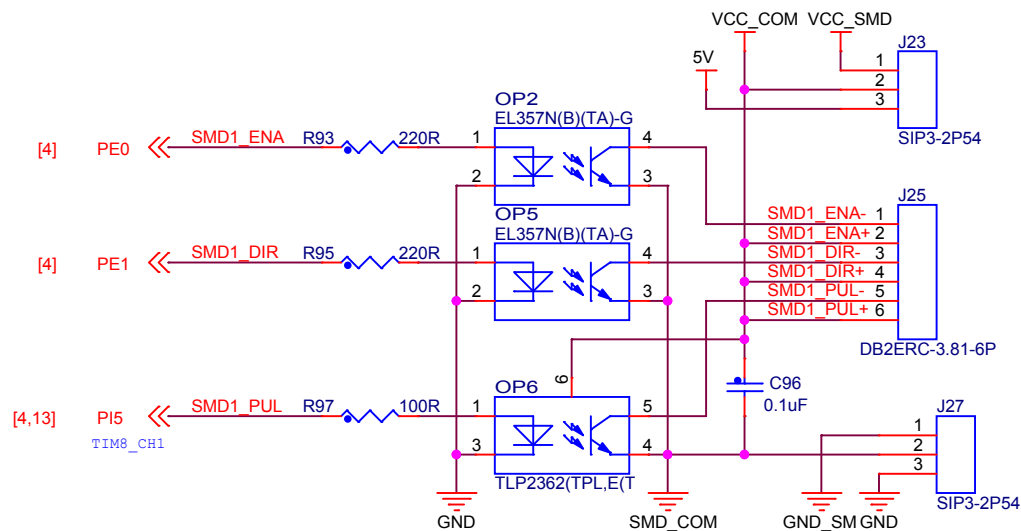


舵机驱动接口



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Title 野火_F407电机驱动控制板_原理图		
Size A4	Document Number LCD	Rev V1.0
Date: Wednesday, January 08, 2020	Sheet 11 of 14	

四路步进电机驱动接口



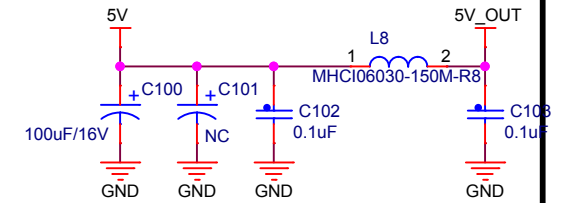
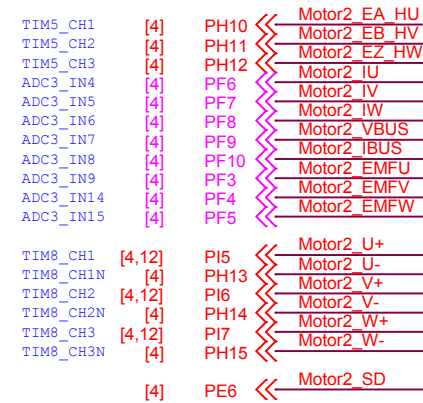
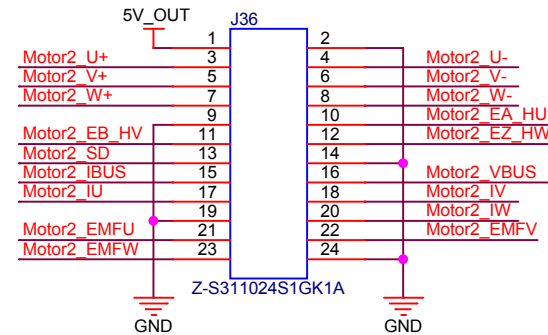
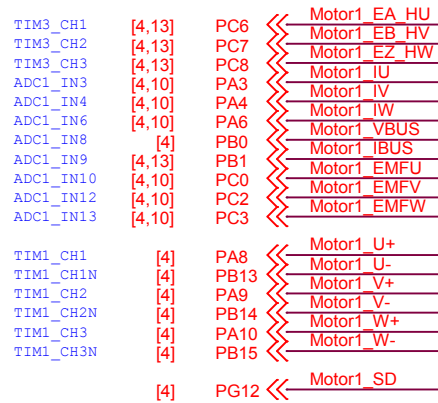
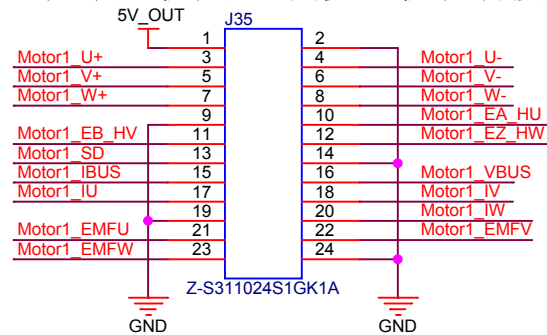
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Title 野火_F407电机驱动控制板_原理图

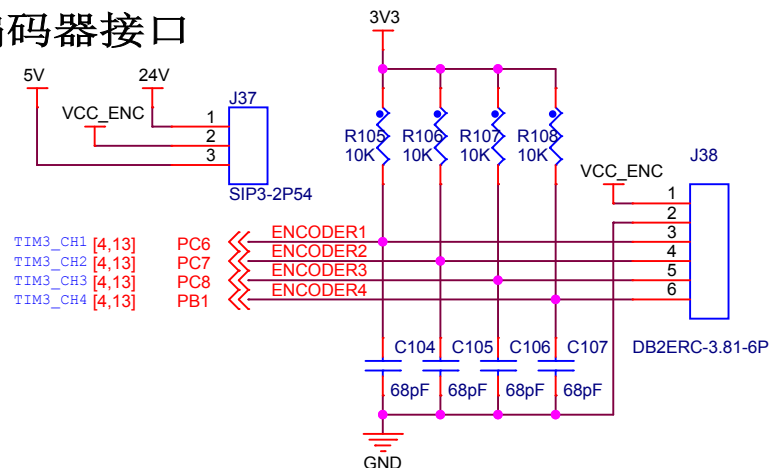
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Date: Wednesday, January 08, 2020	Sheet 12 of 14
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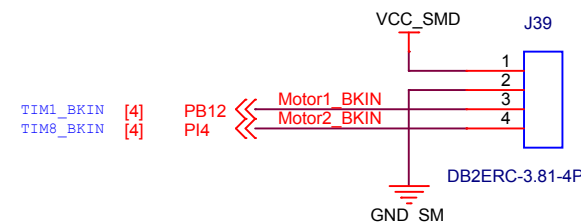
两路直流无刷电机/永磁同步电机驱动接口



编码器接口



定时器刹车输入



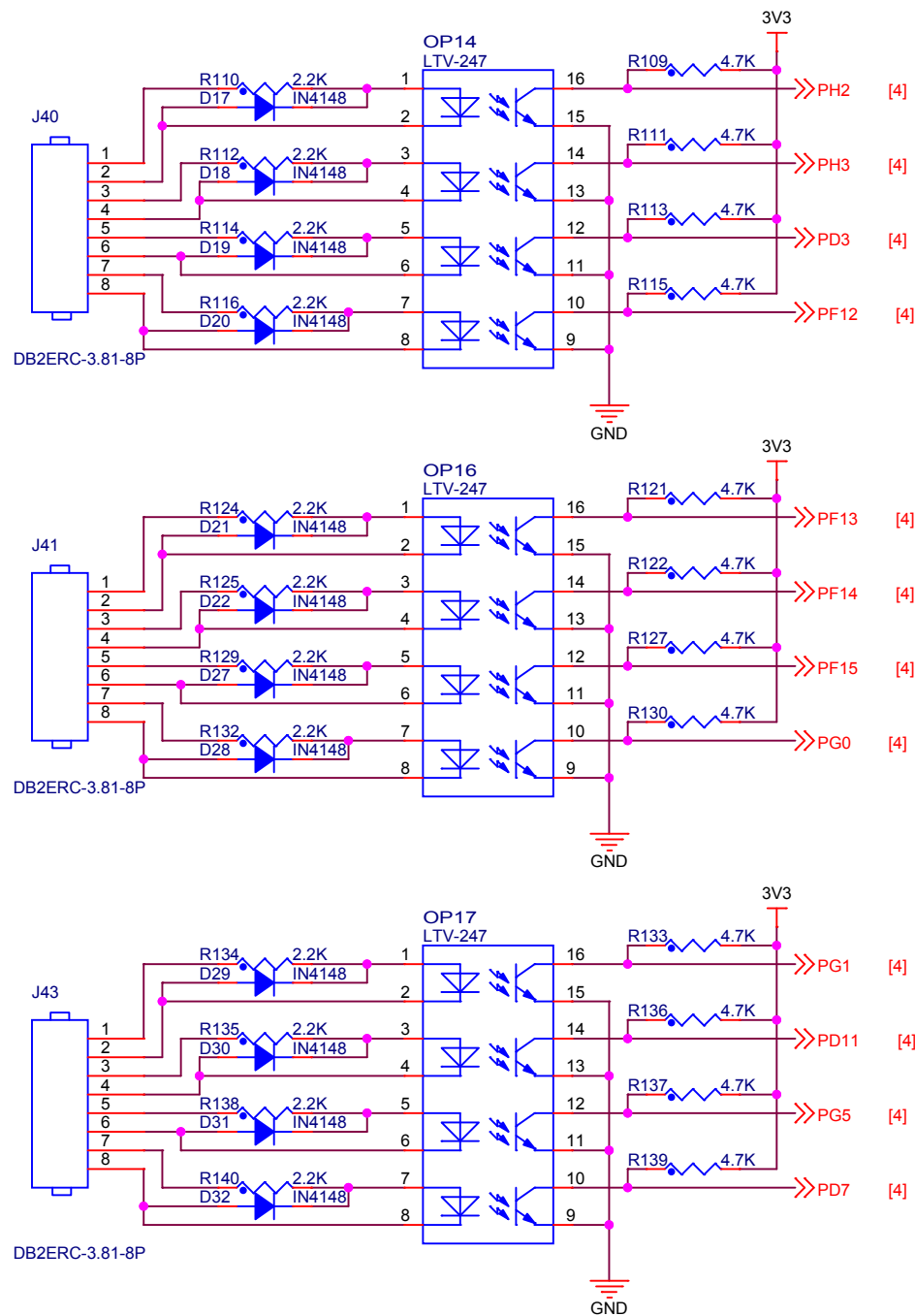
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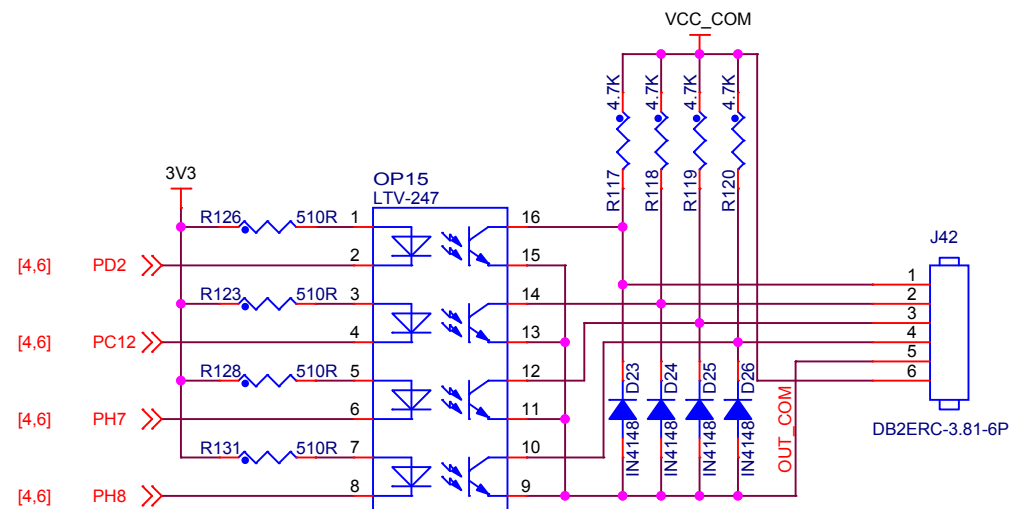
Size A4 Document Number BLDC/PMSM驱动接口 Rev V1.0

Date: Wednesday, January 08, 2020 Sheet 13 of 14

通用输入接口



通用输出接口



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Title
野火_F407电机驱动控制板_原理图

Size A4	Document Number 通用输入输出接口	Rev V1.0
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Date: Wednesday, January 08, 2020 Sheet 14 of 14