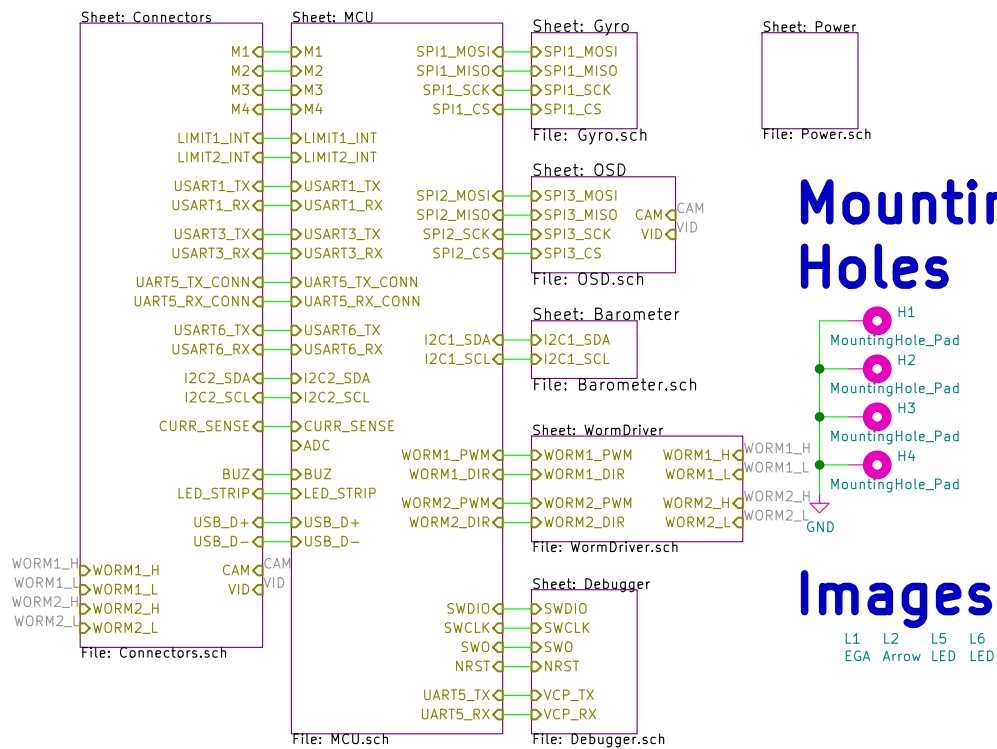


# Main



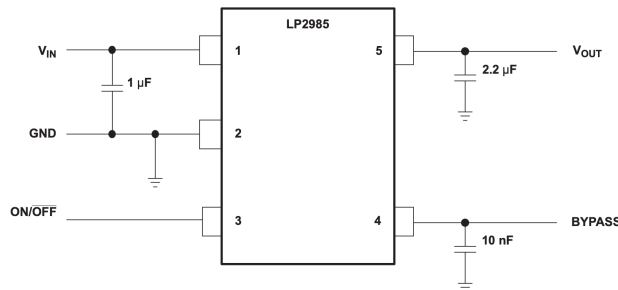
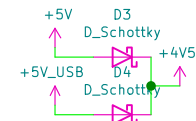
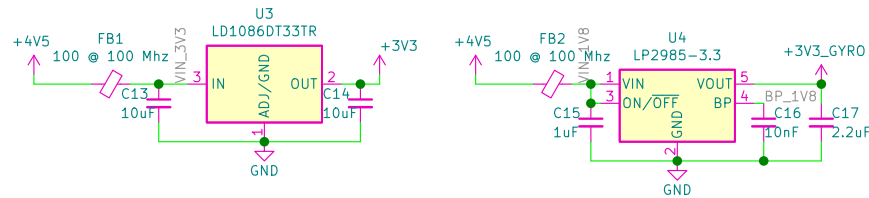
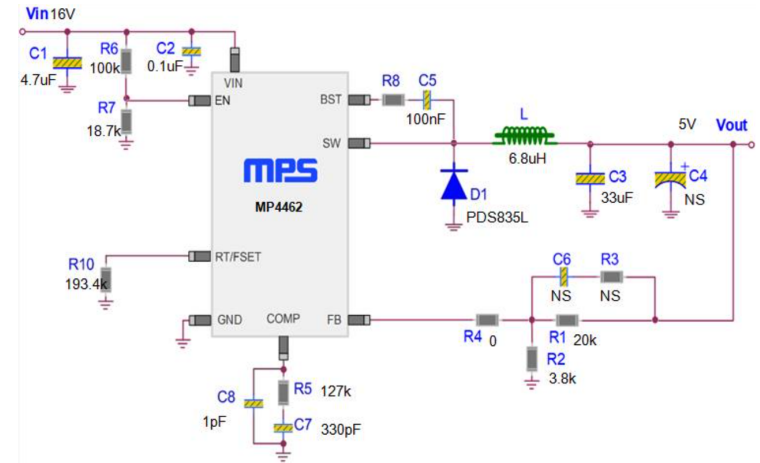
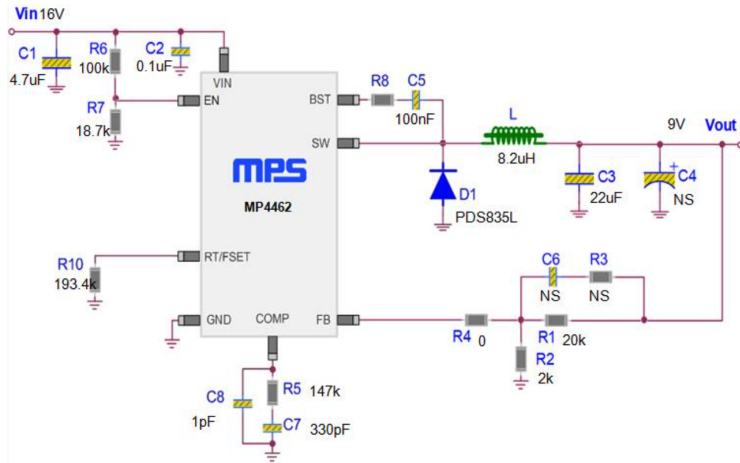
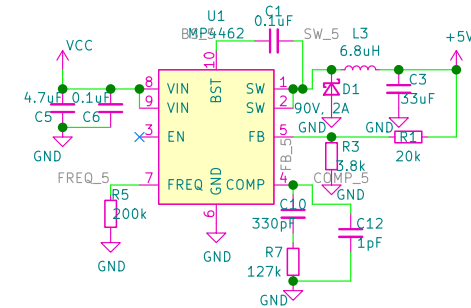
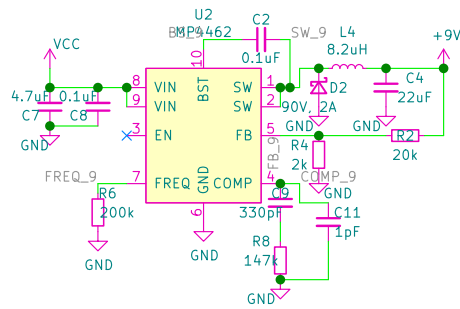
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**Title:** F722 Flight Controller

Size: A4	Date:
KiCad E.D.A. kicad (5.1.6-0-10_14)	

Rev:  
Id: 1/9

# Power



Sheet: /Power/  
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Title:

Size: A4

Date:

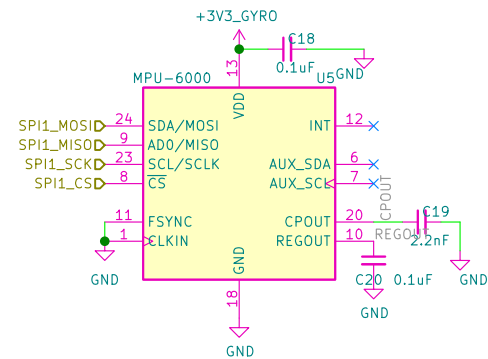
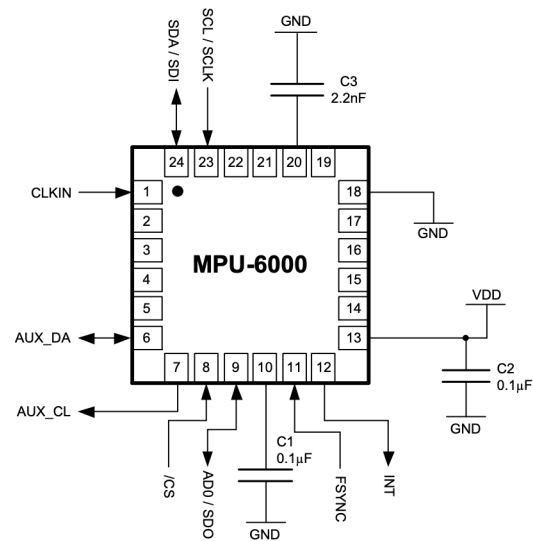
KiCad E.D.A. kicad (5.1.6-0-10\_14)

Rev:

Id: 2/9

# Gyro

## 7.2 Typical Operating Circuit



Sheet: /Gyro/  
File: Gyro.sch

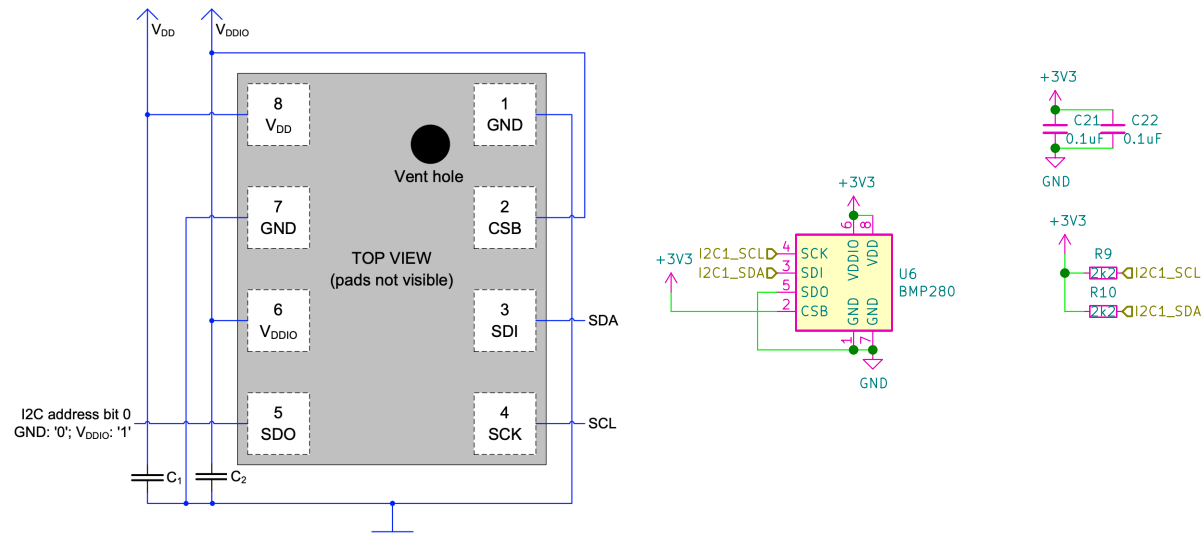
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KiCad E.D.A. kicad (5.1.6-0-10\_14)

Date:

Rev:  
Id: 3/9

# Barometer



Sheet: /Barometer/  
File: Barometer.sch

**Title:**

Size: A4

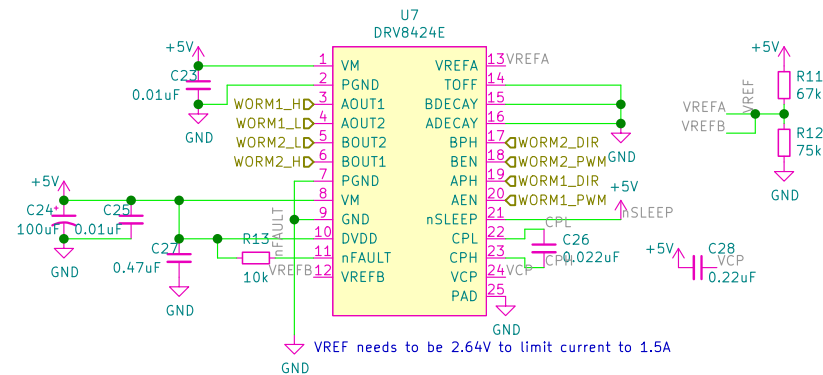
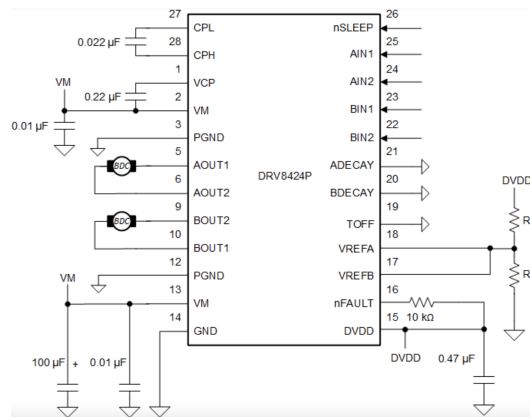
Date:

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**Rev:**

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# Worm Motor Driver



Sheet: /WormDriver/  
File: WormDriver.sch

## Title:

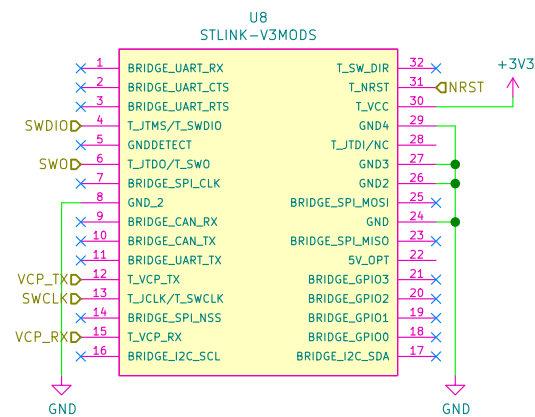
Size: A4  
KiCad E.D.A. kicad (5.1.6-0-10\_14)

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Rev:  
Id: 5/9

# Debugger

Side	Pin #	Pin description	Type
LEFT	1	Bridge UART RX <sup>(1)</sup>	I
	2	Bridge UART CTS	I
	3	Bridge UART RTS	O
	4	T_JTMS/T_SWDIO	O
	5	GNDDetect <sup>(2)</sup>	I
	6	T_JTDO/T_SWO <sup>(3)</sup>	I
	7	Bridge SPI CLK	I/O
	8	GND	S
	9	Bridge CAN RX <sup>(1)</sup>	I
	10	Bridge CAN TX <sup>(4)</sup>	O
	11	Bridge UART TX <sup>(4)</sup>	O
	12	T_VCP_TX	I
	13	T_JCLK/T_SWCLK	O
	14	Bridge SPI NSS	I/O
	15	T_VCP_RX	O
	16	Bridge I2C SCL	O
RIGHT	17	Bridge I2C SDA	I/O
	18	Bridge GPIO0	I/O
	19	Bridge GPIO1	I/O
	20	Bridge GPIO2	I/O
	21	Bridge GPIO3	I/O
	22	Reserved <sup>(5)</sup>	-
	23	Bridge SPI MISO	I/O
	24	GND	S
	25	Bridge SPI MOSI	I/O
	26	GND	S
	27	GND	S
	28	T_JTDI/NC <sup>(6)</sup>	O
	29	GND	S
	30	T_VCC <sup>(7)</sup>	I
	31	T_NRST	O
	32	T_SW_DIR	O



Sheet: /Debugger/  
File: Debugger.sch

**Title:**

Size: A4

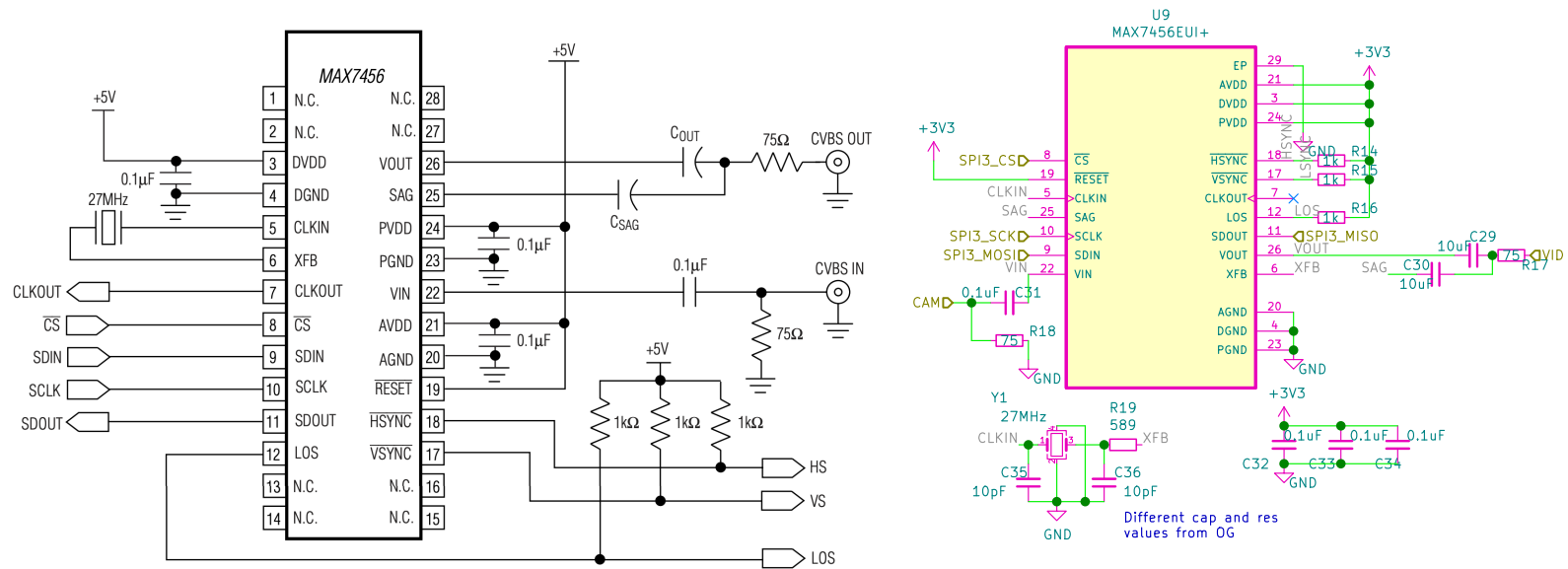
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**Rev:**

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# OSD



Sheet: /OSD/  
File: OSD.sch

**Title:**

Size: A4

Date:

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**Rev:**

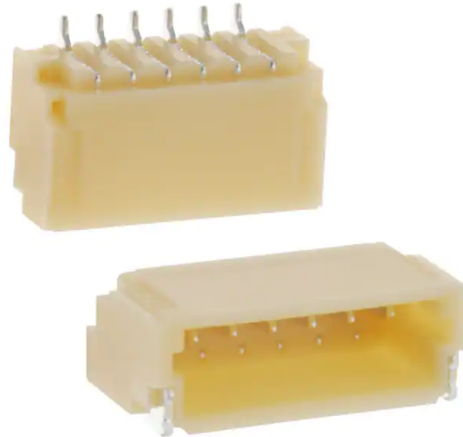
Id: 7/9

# Connectors

## JST 8 Pin Conn



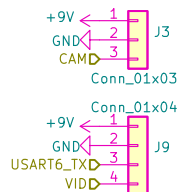
## JST 6 Pin Conn



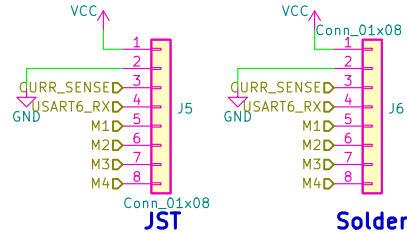
## USB Conn



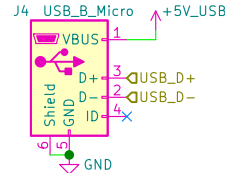
### CAMERA



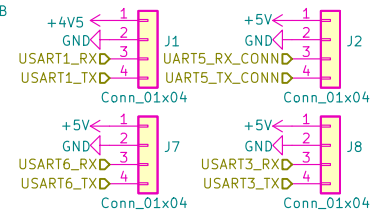
### FC to ESC Harness



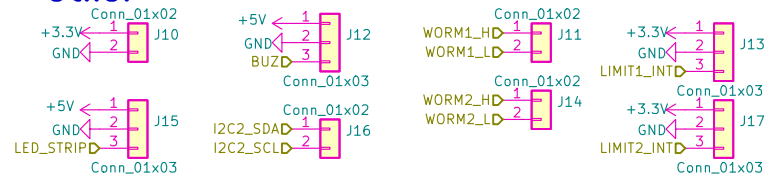
### USB



### UARTS



### Other



Sheet: /Connectors/  
File: Connectors.sch

**Title:**

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KiCad E.D.A. kicad (5.1.6-0-10\_14)

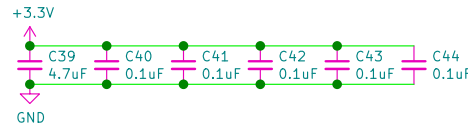
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Rev:  
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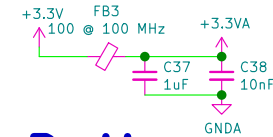


# MCU

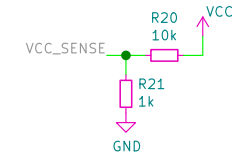
## Input Filtering



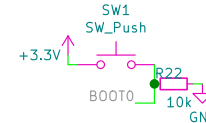
## Analog Filtering



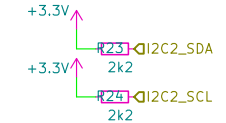
## Voltage Sense



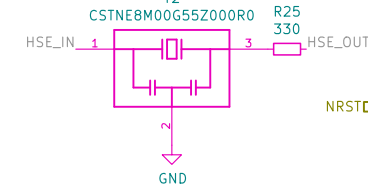
## Button



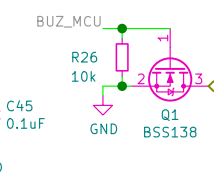
## I2C PullUps



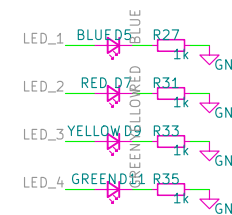
## Oscillator



## Buzzer



## User LEDs



## Power LEDs

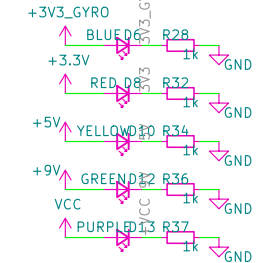
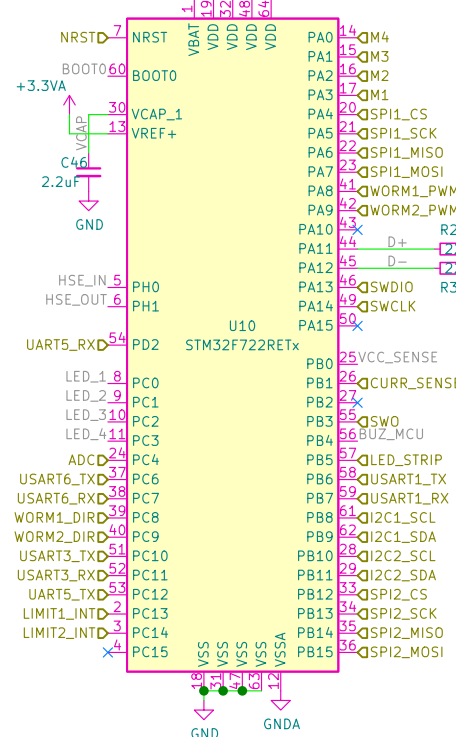
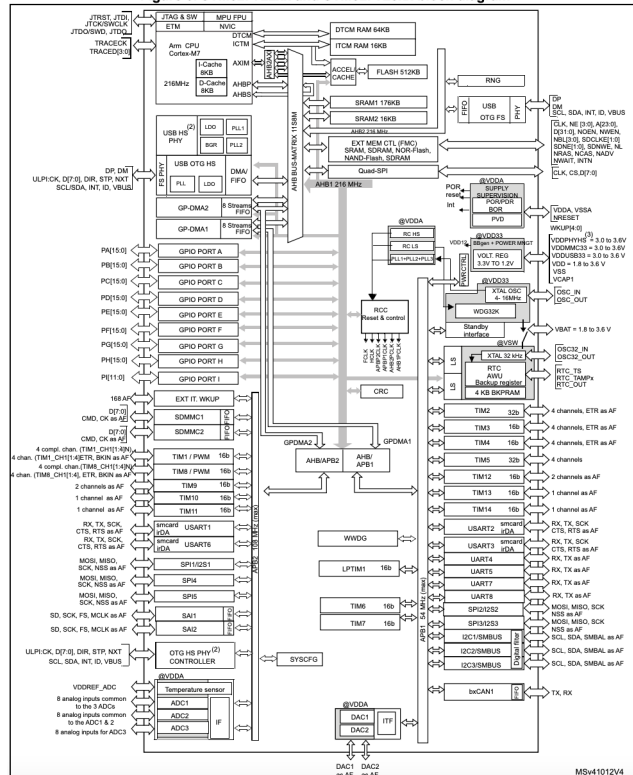


Figure 6. STM32F722xx and STM32F723xx block diagram



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