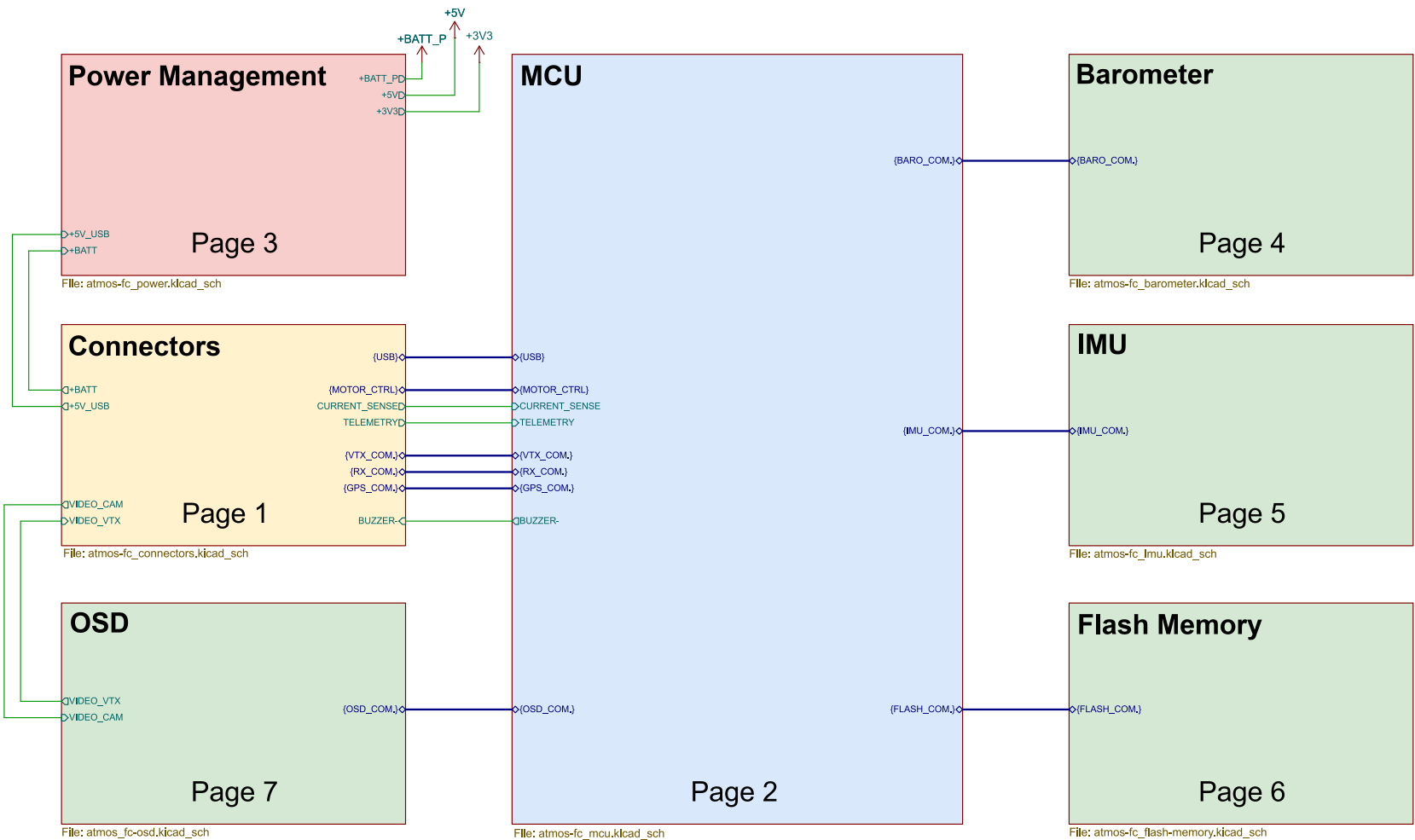


[1] Project Architecture



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File: `atmos-fc.kicad_sch`

Title: Project Architecture

Size: A4

Date: 2025-09-01

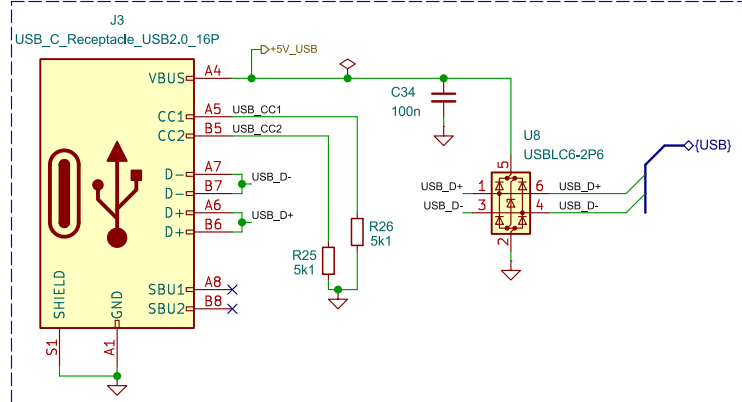
Rev: 0.1

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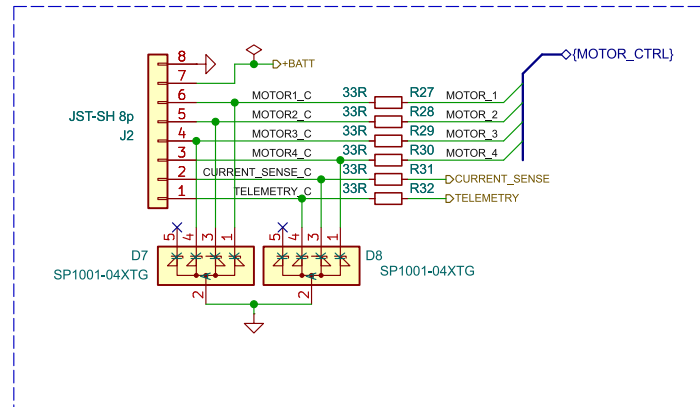
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[1] Connectors

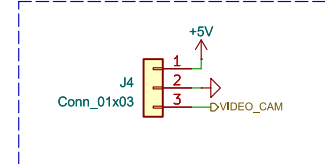
USB



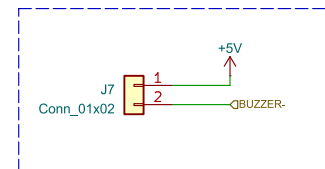
ESC



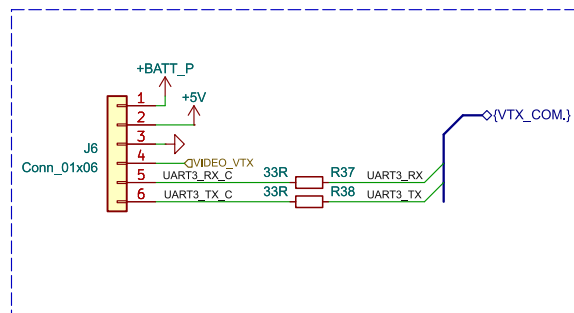
Camera



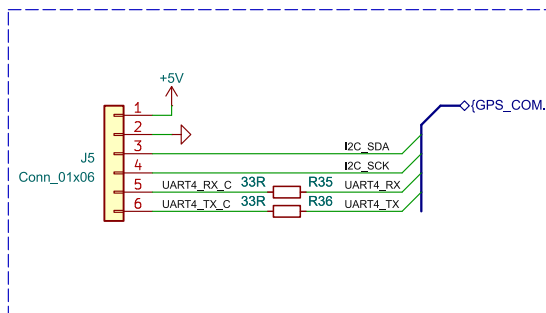
Buzzer



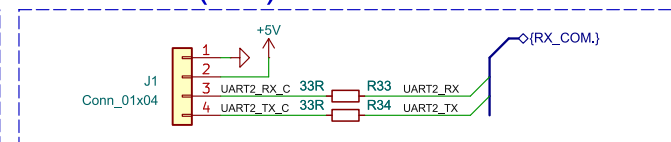
VTX



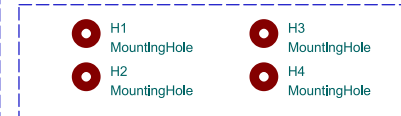
GPS



Receiver (RX)



M3 Mounting Holes



Sheet: /Connectors/
File: atmos-fc_connectors.kicad_sch

Title: Connectors

Size: A4 Date: 2025-09-01

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Rev: 0.1

Id: 1/8

MCU

Diagram illustrating the pin connections for the STM32F407VGT6 microcontroller:

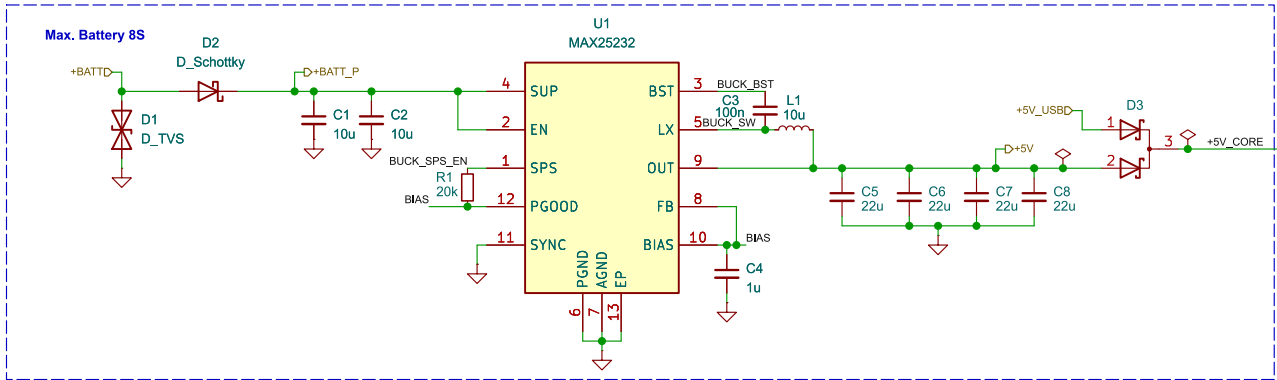
- MOTOR_CTRL** is connected to **MOTOR_1**, **MOTOR_2**, **MOTOR_3**, and **MOTOR_4**.
- GPS_COM** is connected to **I2C_SDA**, **I2C_SCL**, **UART4_RX**, and **UART4_TX**.
- VTX_COM** is connected to **UART3_RX** and **UART3_TX**.
- RX_COM** is connected to **UART2_RX** and **UART2_TX**.
- USB** is connected to **USB_D-** and **USB_D+**.

The diagram illustrates the SPI peripheral configuration for the IMU, OSD, and BARO modules. It shows four SPI controllers: FLASH_COM, IMU_COM, OSD_COM, and BARO_COM. Each controller is connected to a specific SPI device. The IMU_COM controller is connected to the IMU module, which has four pins: IMU_SPI_CS, IMU_SPI_SCK, IMU_SPI_MISO, and IMU_SPI_MOSI. The OSD_COM controller is connected to the OSD module, which has four pins: OSD_SPI_CS, OSD_SPI_SCK, OSD_SPI_MISO, and OSD_SPI_MOSI. The BARO_COM controller is connected to the BARO module, which has two pins: I2C_SDA and I2C_SCK. The FLASH_COM controller is connected to the FLASH module, which has four pins: FLASH_SPI_CS, FLASH_SPI_SCK, FLASH_SPI_MISO, and FLASH_SPI_MOSI.

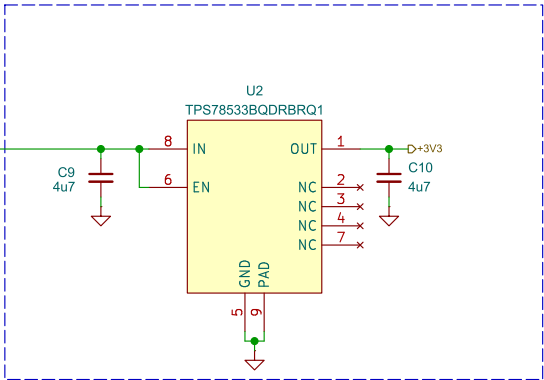
Rev: 0.1
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[3] Power Management

5V Buck Converter



3V3 LDO Regulator



Sheet: /Power Management/
File: atmos-fc_power.kicad_sch

Title: Power Management

Size: A4

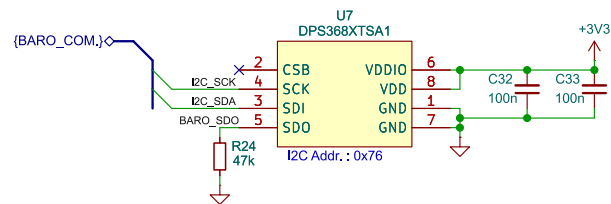
Date: 2025-09-01

Rev: 0.1

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Id: 3/8

[4] Barometer



Sheet: /Barometer/
File: atmos-fc_barometer.kicad_sch

Title: Barometer

Size: A4 Date: 2025-09-01

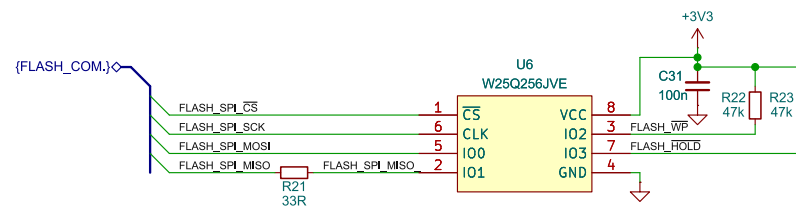
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Id: 4/8

Sheet: /IMU/		
File: atmos-fc_imu.kicad_sch		
Title: Inertial Measurement Unit		
Size: A4	Date: 2025-09-01	Rev: 0.1
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[6] Flash Memory (Blackbox)



Sheet: /Flash Memory/
File: atmos-fc_flash-memory.kicad_sch

Title: Flash Memory (Blackbox)

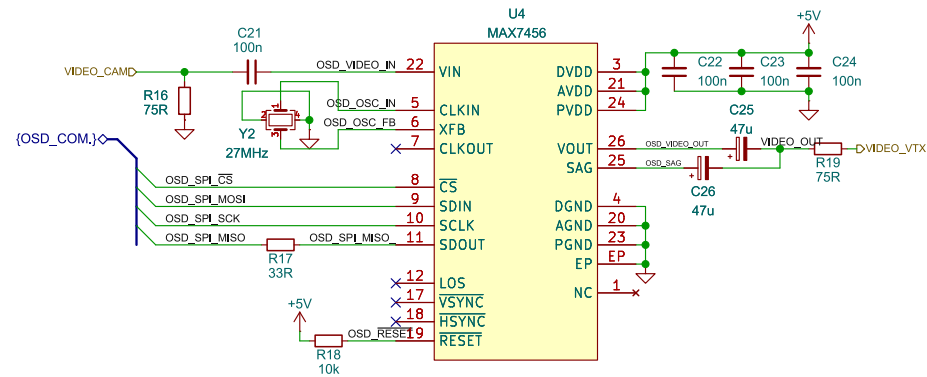
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Rev: 0.1

Id: 6/8

[7] On Screen Display



Sheet: /OSD/
File: atmos_fc-osd.kicad_sch

Title: On Screen Display

Size: A4 Date: 2025-09-01

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Rev: 0.1

Id: 7/8