STM32F3DISCOVERY

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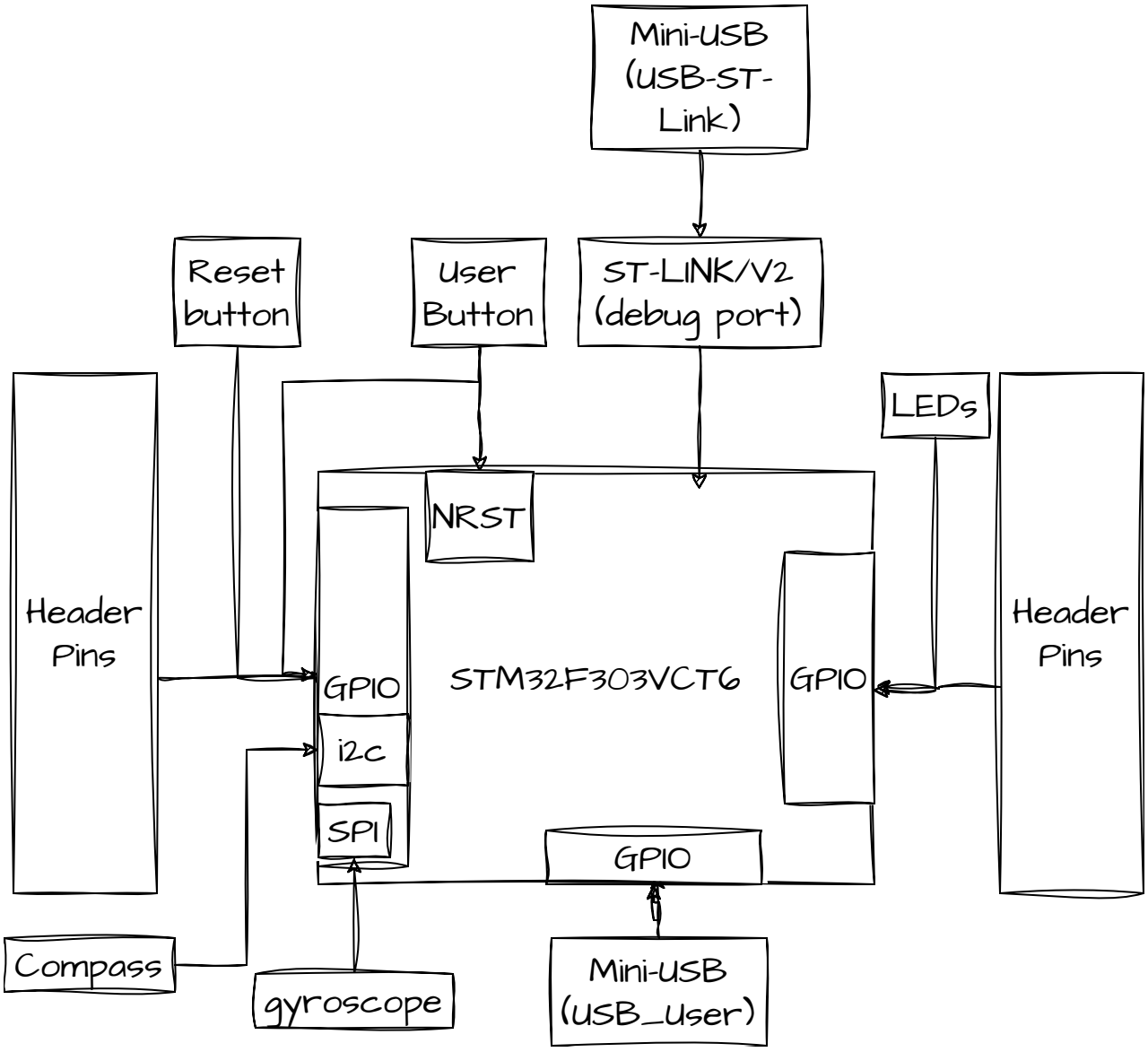
Hardware Block Diagram



Details

- **What kind of processor is it?**

STM32F303VCT6 Microcontroller

- **How much Flash and RAM does it have? Any other memory types?**

256 Kilobytes of Flash and 48 Kilobytes of RAM

- **Does it have any special peripherals? (List 3-5 that you find interesting)**

1. 3x-axis Gyroscope
2. Acceleration Sensor
3. Magnetic Sensor

- **If it has an ADC, what are the features?**

The ADC on the discovery board is used to convert a voltage applied to a given Anal Input channel. ADC1's Channel 7 is located on PC1 of the devboard.

- **How much does the board cost vs what the processor costs? Is the processor in stock anywhere? (Try Digikey, Mouser, Octopart, Google, and so on.)**

The Discovery board is $16.43 per board and is available direct from STMicroelectronics.
The STM32F303VCT6 MCU pricing starts at $9.95 per unit for quantities of 1-9 units. With discounts on unit pricing for higher volume quantities.

Adafruit Feather M0 with RFM95 LoRa Radio

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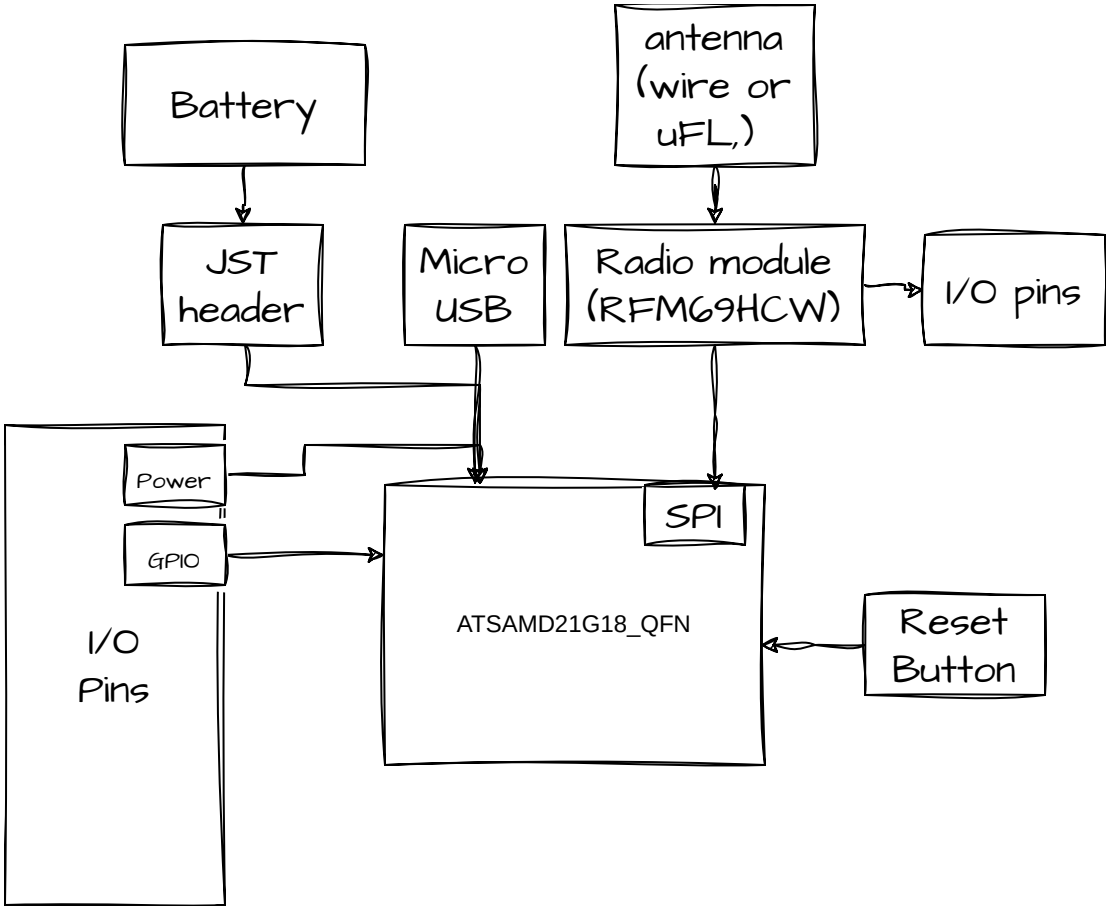
Hardware Block Diagram



Details

- What kind of processor is it?

ATSAMD21G18 ARM Cortex M0 processor

- How much Flash and RAM does it have? Any other memory types?

256 Kilobytes of flash memory
32 Kilobytes of RAM

- Does it have any special peripherals? (List 3-5 that you find interesting)

1. SX127x LoRa Transceiver
2. USB connector
3. GPIO exposed through through-holes
4. power header
5. Reset button
6. Antenna hole

- If it has an ADC, what are the features?

The LoRa module on the board contains an ADC for Data conversion but no ADC on the Feather board.

- How much does the board cost vs what the processor costs? Is the processor in stock anywhere? (Try Digikey, Mouser, Octopart, Google, and so on.)

The board costs $34.95 and the ATSAMD21G18 costs $4.16 per chip starting at quantities of 1 to 24.