Analog Hardware

Synerduino STM

VERSIONS: F405, F411, H743

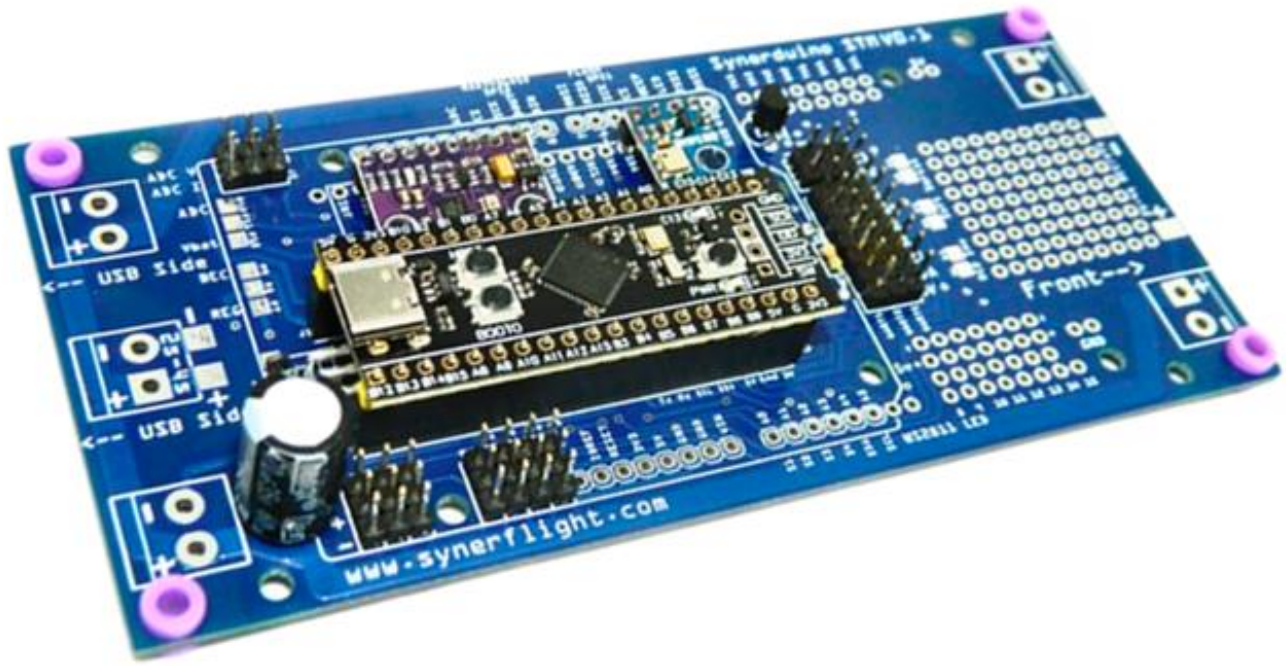
For more Information:
www.synerflight.com

INTRODUCTION

This is where you install your

- Analog Devices
- Voltage monitoring

This guide shows the layout of installation process

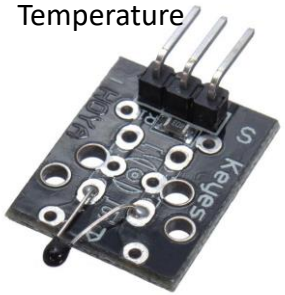


F411 ADC SENSOR

ADC External Sensor

MQ Gas sensor

Temperature

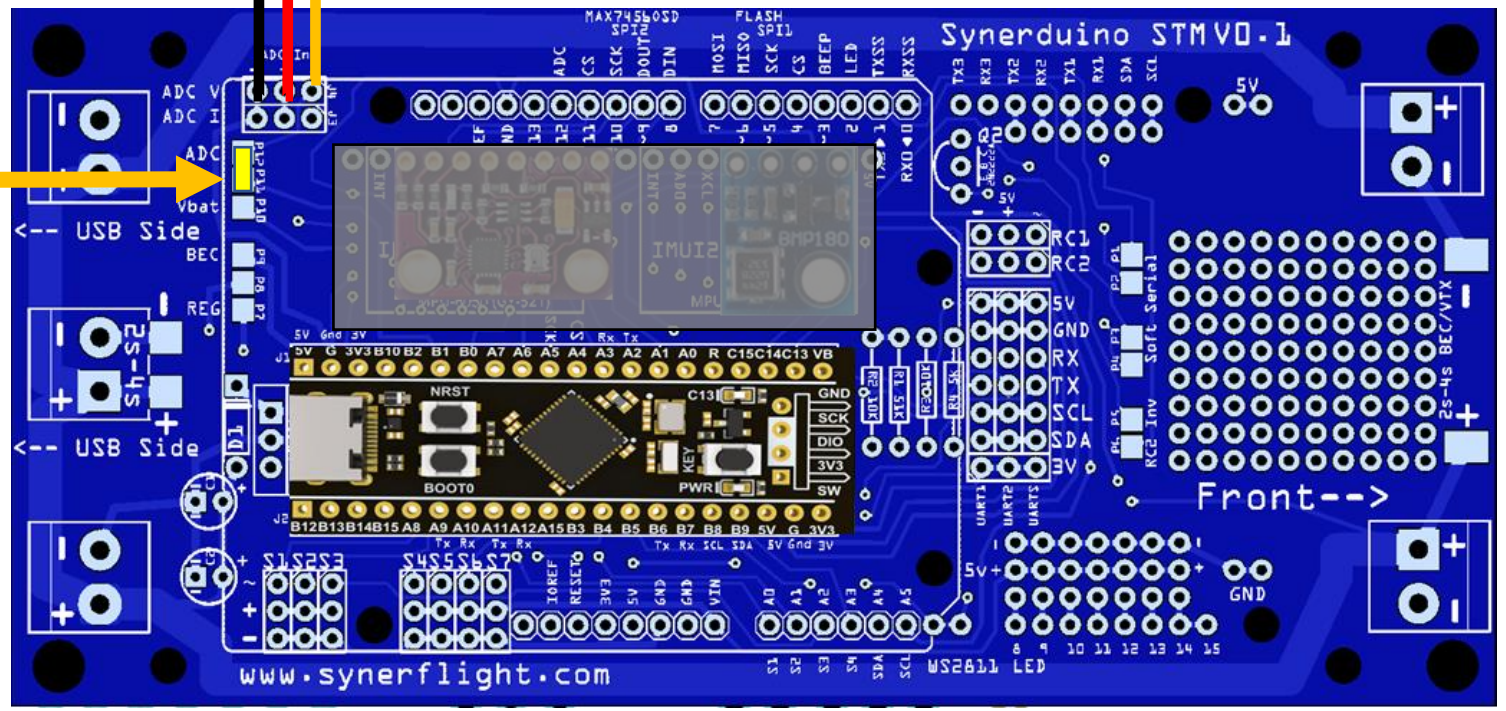


Current sensor

Here you can switch to ADC sensor input or VBAT for Battery monitoring

ADC V – Voltage 0-5V

ADC I – Current 0-5V



F405 ADC SENSOR

Here you can switch to ADC sensor input or VBAT for Battery monitoring

A1 ADC V – Voltage 0-5V

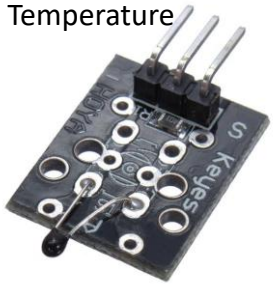
A2 ADC I – Current 0-5V

A3 ADC T – RSSI 0-5V

A4 ADC A – AIRSPEED 0-5V

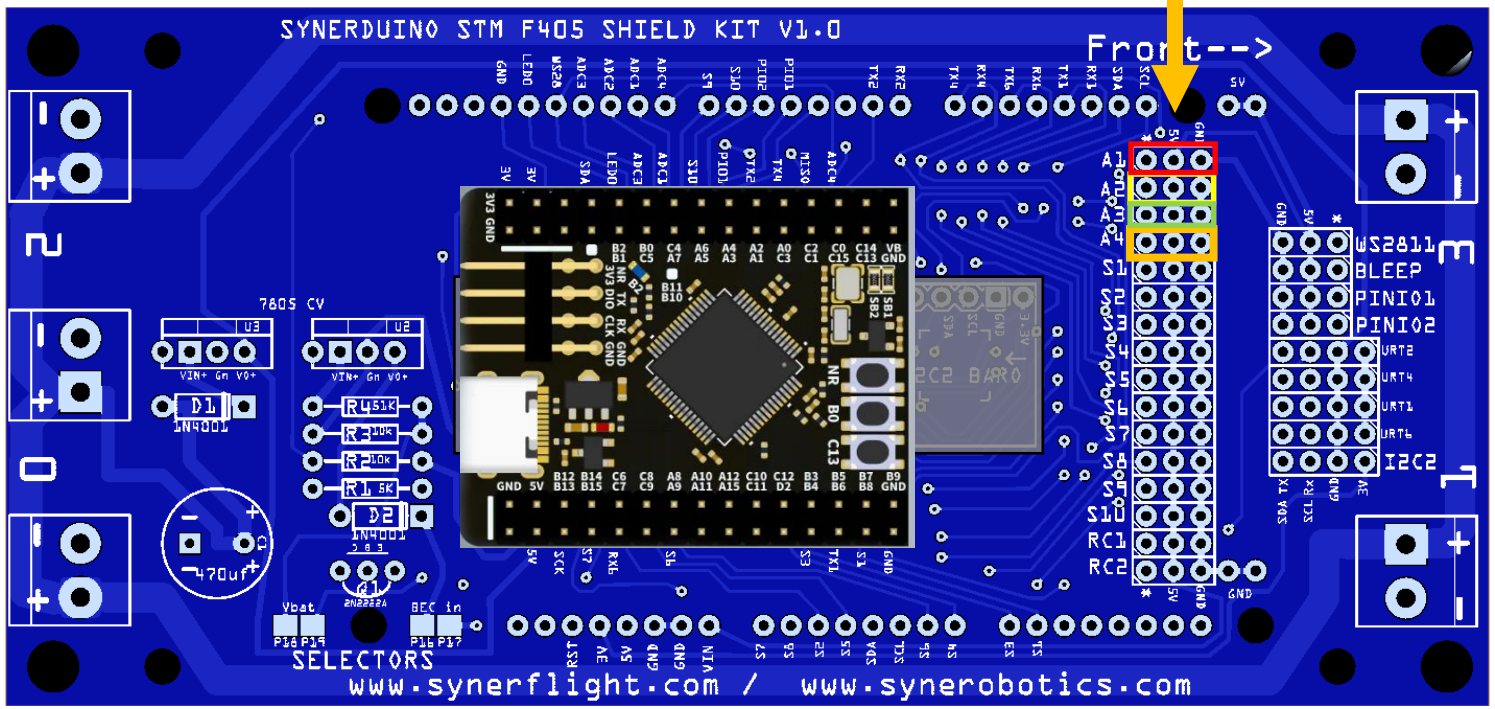
PH sensor

Temperature



MQ Gas sensor

ASPD 7002 Analog Airspeed



PWM to Analog RSSI

Current sensor

STMF405

H743 ADC SENSOR

Here you can switch to ADC sensor input or VBAT for Battery monitoring

A1 ADC V – Voltage 0-5V

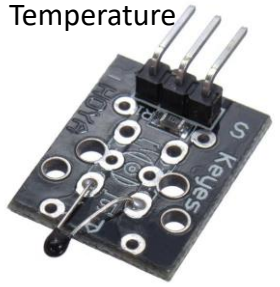
A2 ADC I – Current 0-5V

A3 ADC T – RSSI 0-5V

A4 ADC A – AIRSPEED 0-5V

PH sensor

Temperature

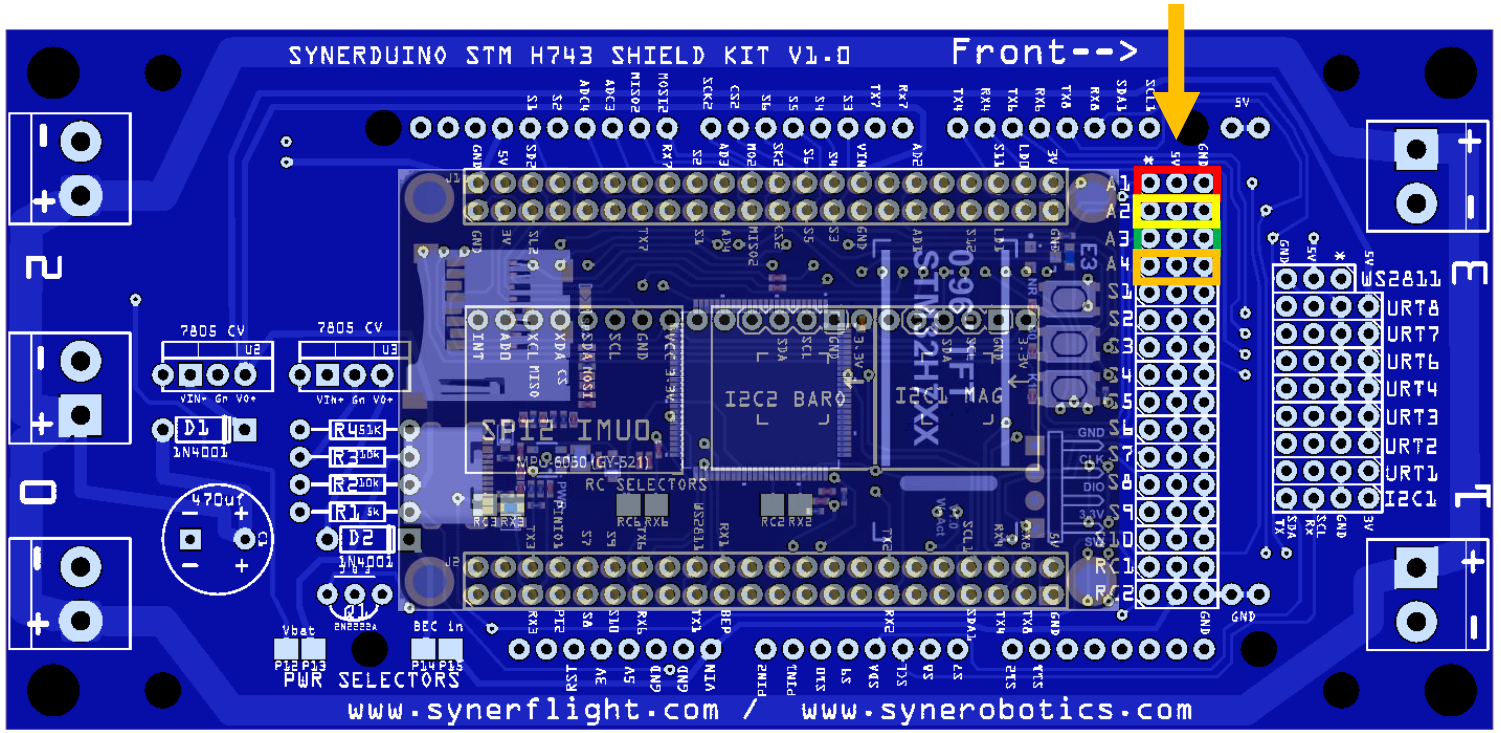


MQ Gas sensor

ASPD 7002 Analog Airspeed

PWM to Analog RSSI

Current sensor



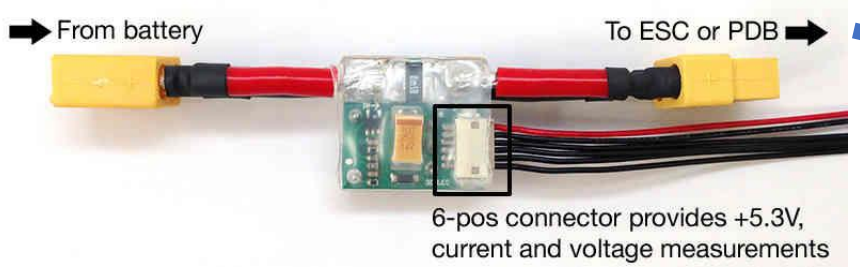
STMH743

Power module

For use of Standalone External power module you can interface with the A1 and A2 pins respectively

A1 ADC V – Voltage 0-5V

A2 ADC I – Current 0-5V

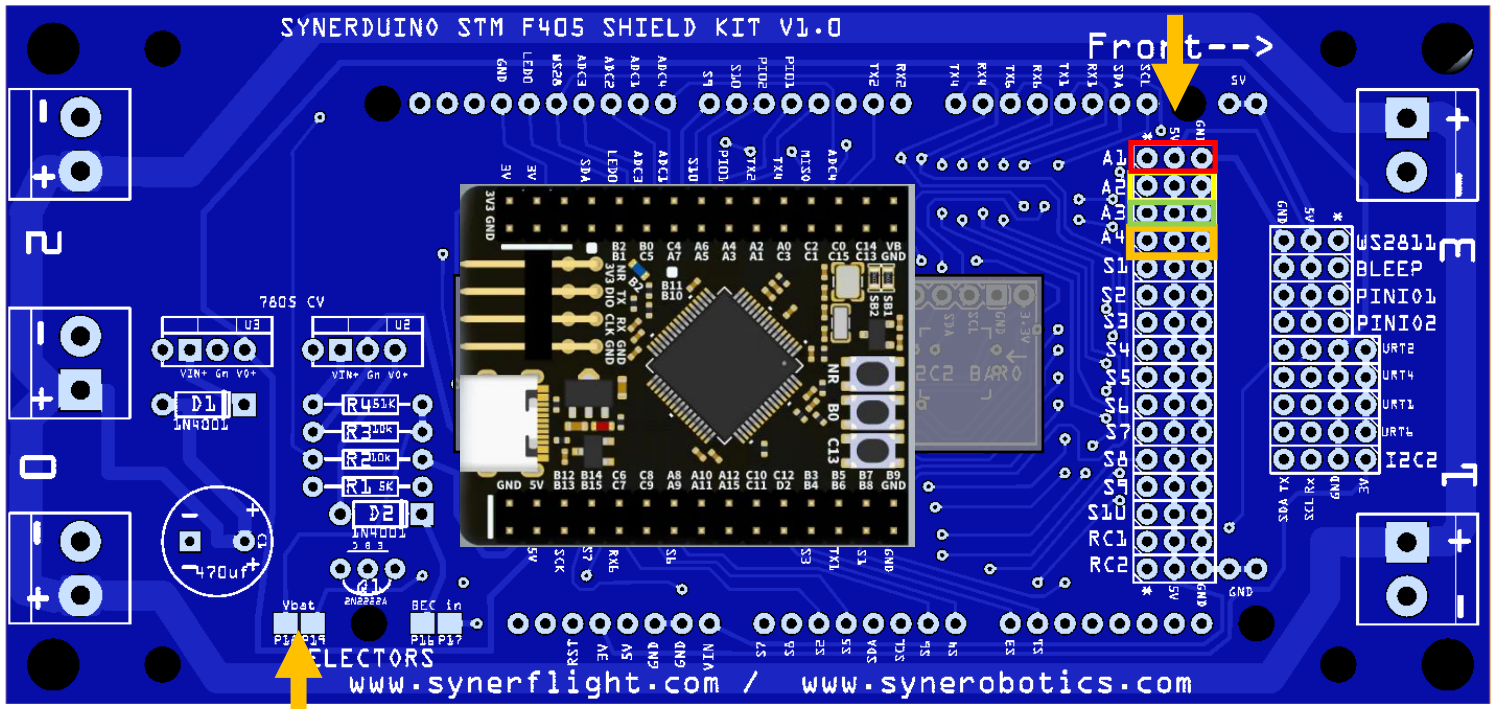


POWER

Pin	Signal	Volt
1 (red)	VCC	+5V
2 (blk)	VCC	+5V
3 (blk)	CURRENT	up to +3.3V
4 (blk)	VOLTAGE	up to +3.3V
5 (blk)	GND	GND
6 (blk)	GND	GND

SWITCH

Pin	Signal	Volt
1 (red)	VCC	+3.3V
2 (blk)	!IO_LED_SAFETY	GND
3 (blk)	SAFETY	GND



STMF405

Vbat must be disconnected this allow to use the external Power module