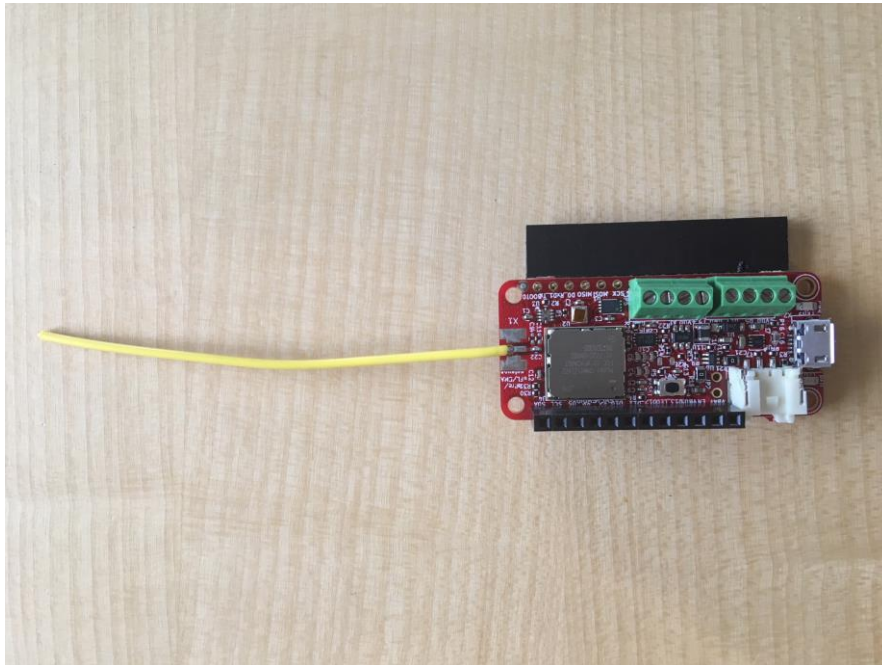


How to Get Started with Catena4551

1. Hardware

1.1. Components

1.1.1. Catena 4551 board



1.1.2. Male-Female connectors



1.1.3. USB to Serial cable



1.2. Connecting Catena 4551 to ST-Link (using jumper wire)

Please see the following pictures and figures for reference.

Note: Color code for jumper wires
Black = 0 ..
Brown = 1

Figure 1. ST-Link JTAG debugging flat ribbon layout

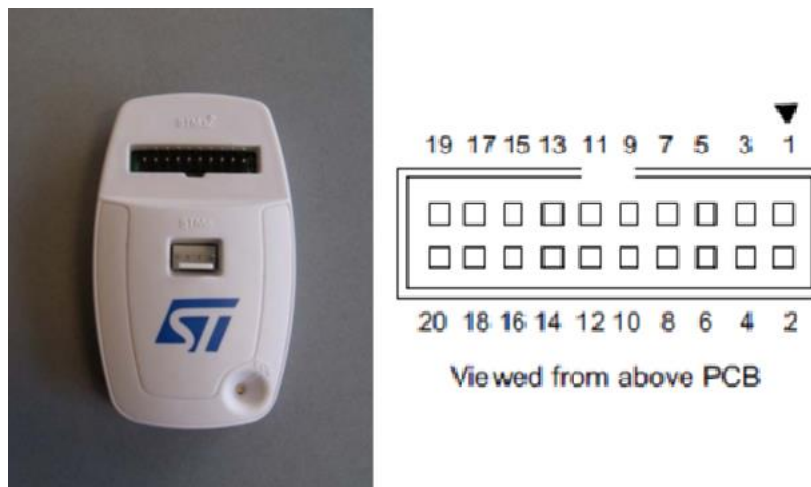


Figure 2. Catena4551 Pinouts

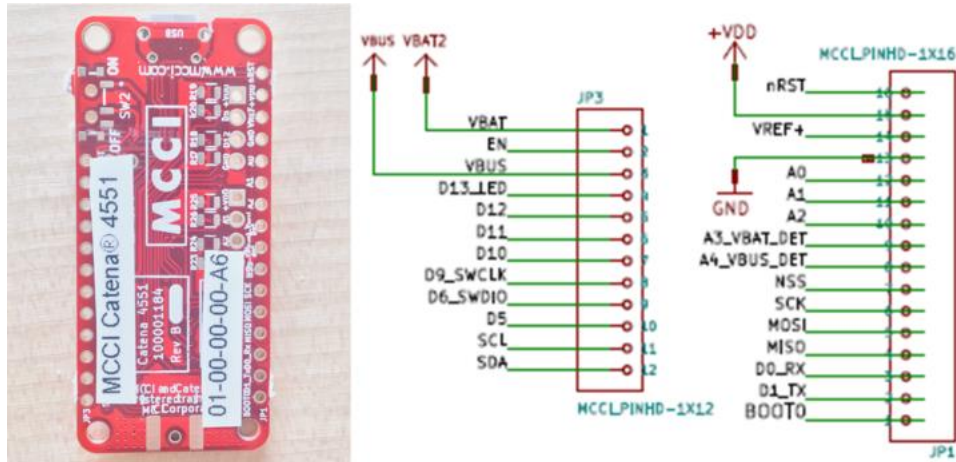
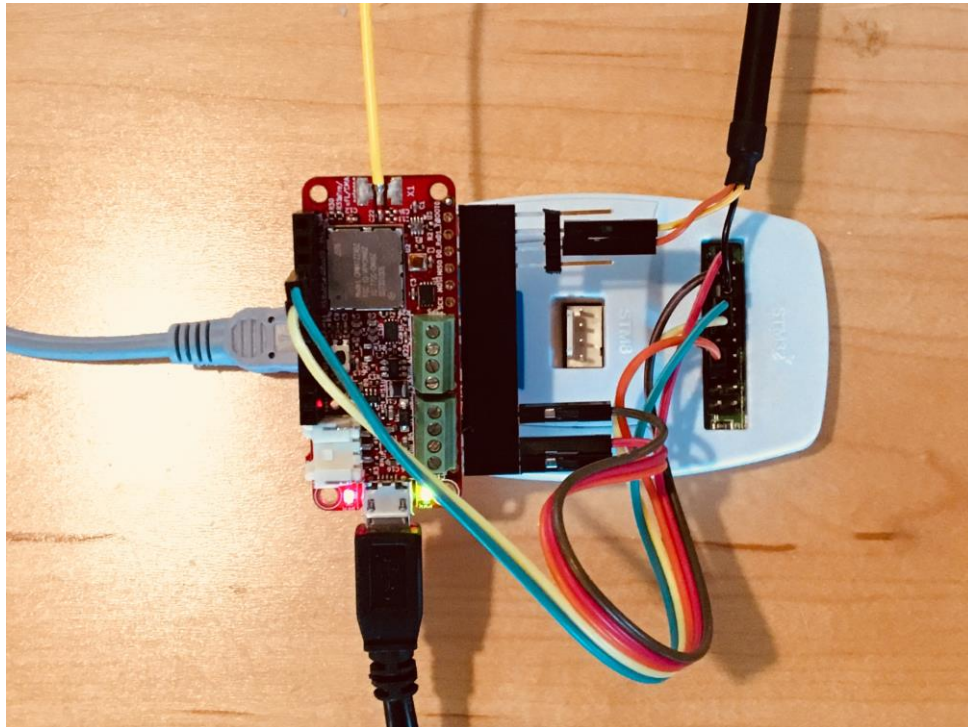


Table 1. Catena 4551 to ST-Link Connection

Note: All Pin 1s should have square pad.

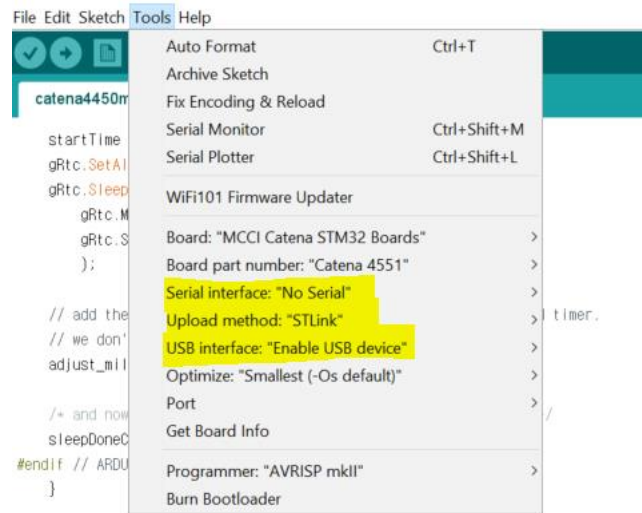
ST-Link connection			
Catena4551		ST-Link	Wire (M/F Jumper)
VDD(JP1 pin 15)		pin 1	1 (brown)
GND(JP1 pin 13)		pin 3	2 (red)
SWDIO(JP3 pin 9)		pin 7	3 (orange)
SWCLK(JP3 pin 8)		pin 9	4 (yellow)
nRST(JP1 pin 16)		pin 15	5 (green)
Debugger serial connection			
Catena4551	ST-Link	USB-to-Serial	
D0_RX(JP1 pin 3)		TX(Orange)	Wire(M/M Jumper)
D1_TX(JP1 pin 2)		RX(Yellow)	Wire(M/M Jumper)
	pin 5	GND(Black)	Direct connect

Figure 3. Example of Completed Set-up

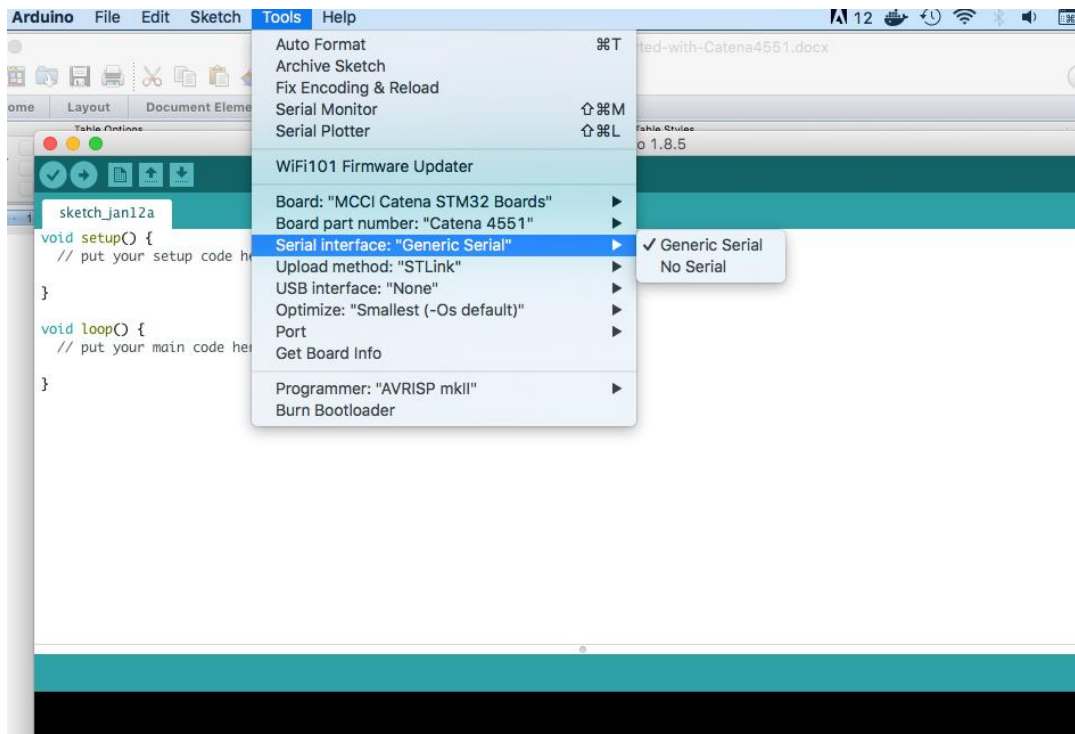


2. Arduino IDE Set

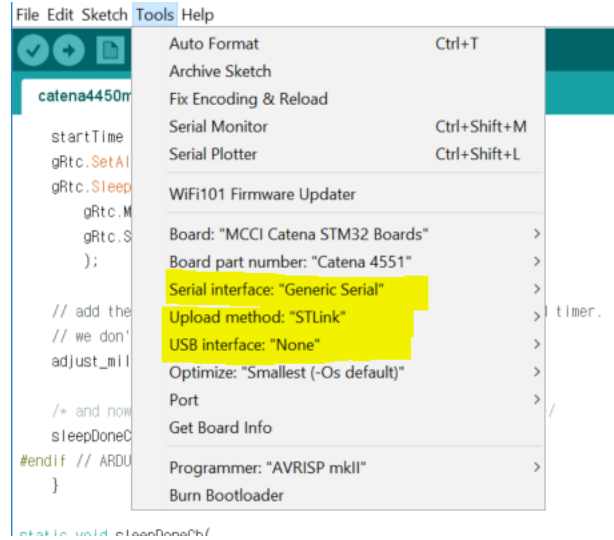
- 2.1. Add https://raw.githubusercontent.com/mcci-catena/arduino-boards/master/BoardManagerFiles/package_mcci_index.json in Additional Boards Manager URLs under preferences
- 2.2. Go to Boards Manager and install "MCCI Catena STM32 Boards"
- 2.3. Go to Tools->Board and select "MCCI Catena STM32 Boards"
- 2.4. To use the USB to Serial Cable to see the debug message,



For MAC Users



2.5. To enable USB,



2.6. Sketch -> Verify/Compile, then Upload

3. Pond-sensor

If you want to use A2 as a data, the digital pin number for A2 is 16.

Three wires - Orange Stripe connects to 3-5V, White connects to ground and Blue Stripe is data.