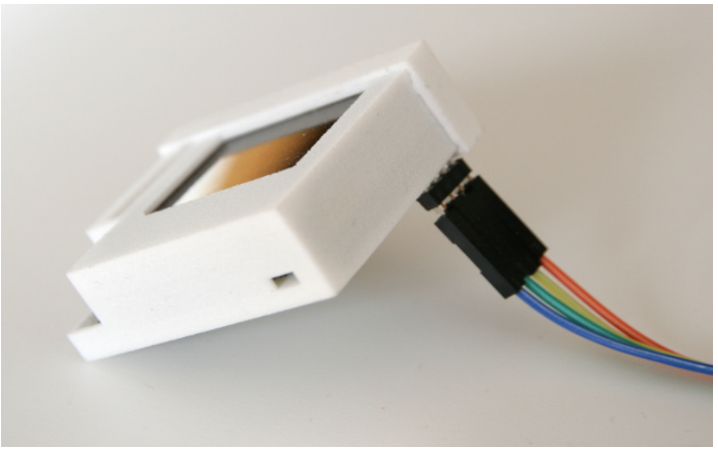


Connecting your ST-Link device to LimiFrog

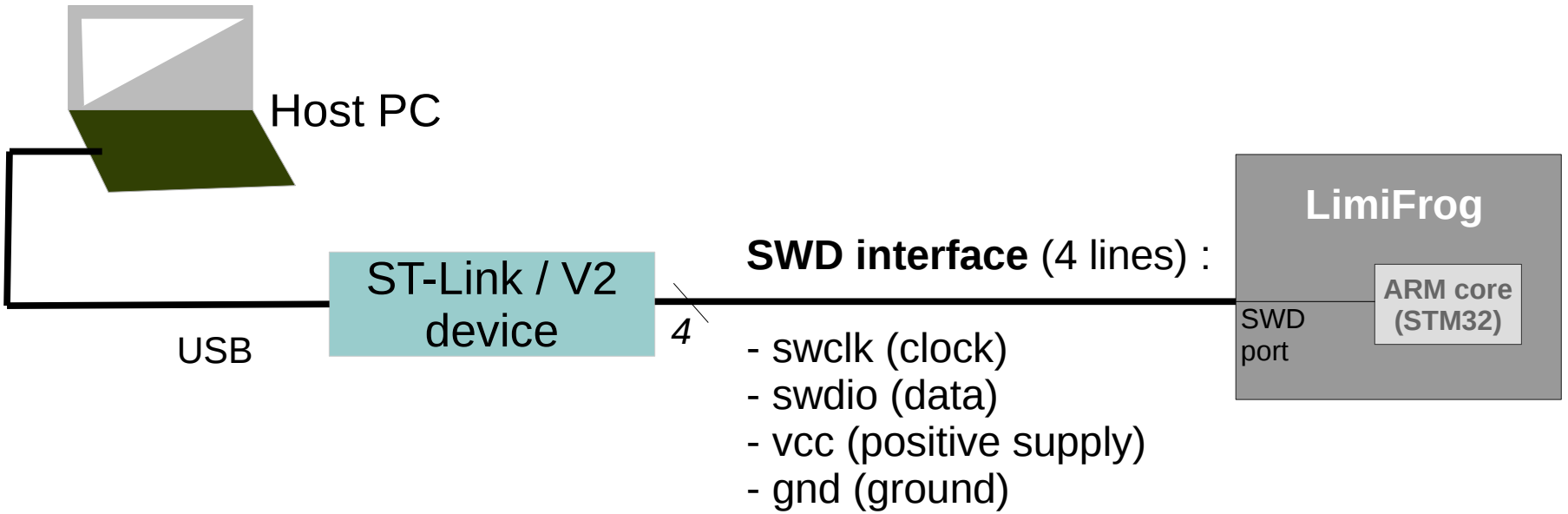
V0.1 – March 2016

ST-Link/V2 usage

> An ST-Link/V2 device acts as a 'bridge' between a host PC and LimiFrog.
It enables downloading (and debuggging) code from the host PC into LimiFrog.

> It connects to the host PC via USB and
to LimiFrog via a specialized 'SWD' interface (4 wires).

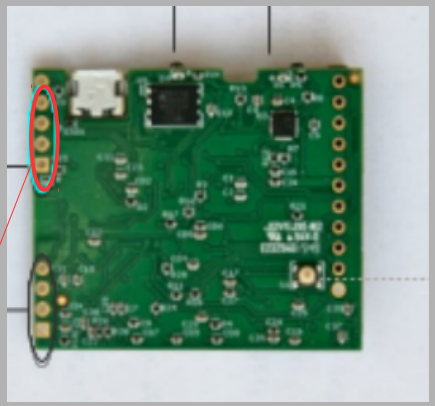
> The SWD port provides the PC with direct access to the STM32 micro-controller.



SWD port location on board

TOP VIEW

BOTTOM VIEW



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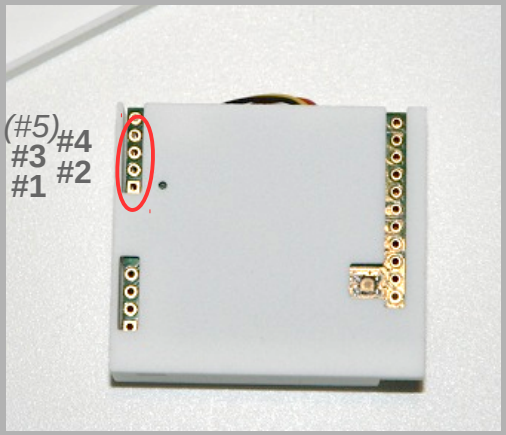
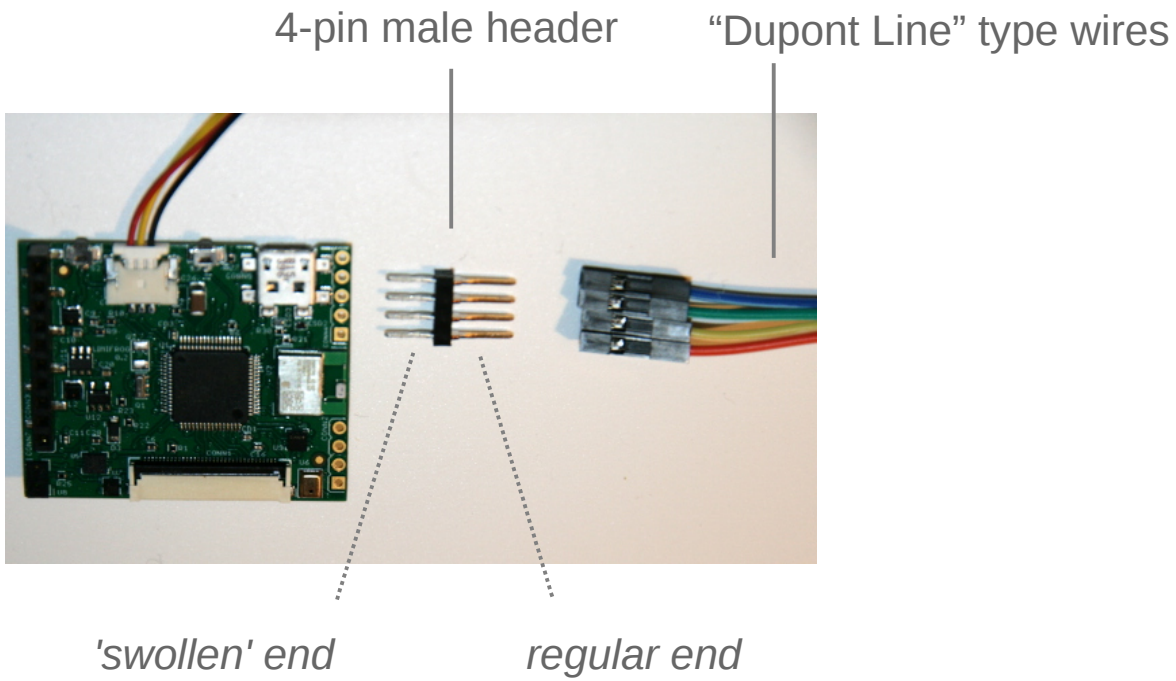


STM32 SWD interface
(4 pins)

Header and wires for connecting to LimiFrog's SWD port

> LimiFrog comes with a removable 4-pin male header that can be plugged into the SWD port of LimiFrog.

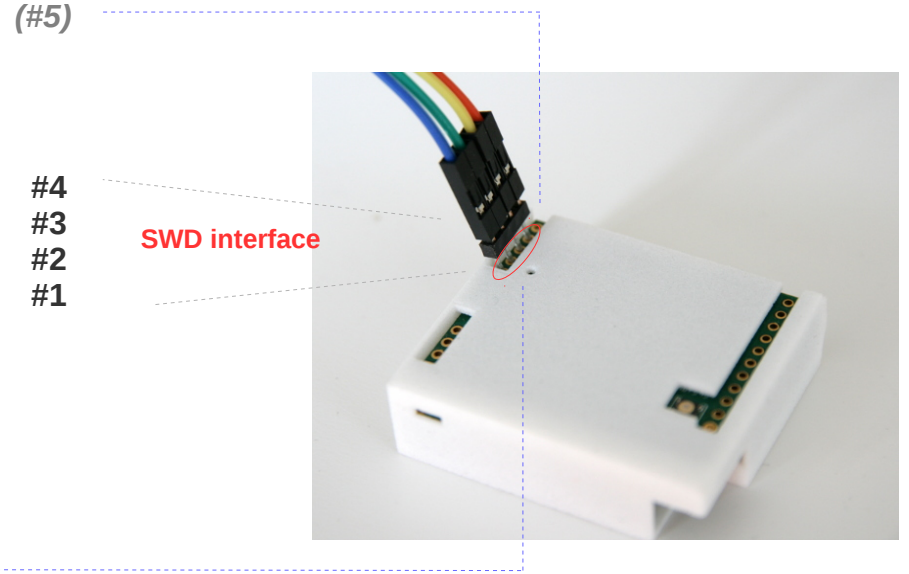
> One end of this 4-pin header is slightly 'swollen' : this end goes into the holes of the SWD port. The swelling facilitates mechanical contact, hence good electrical connection.
The other end plugs into the wires of e.g. four “Dupont Line” wires (provided).



Connecting to LimiFrog

(Pin 5, not part of SDW interface)

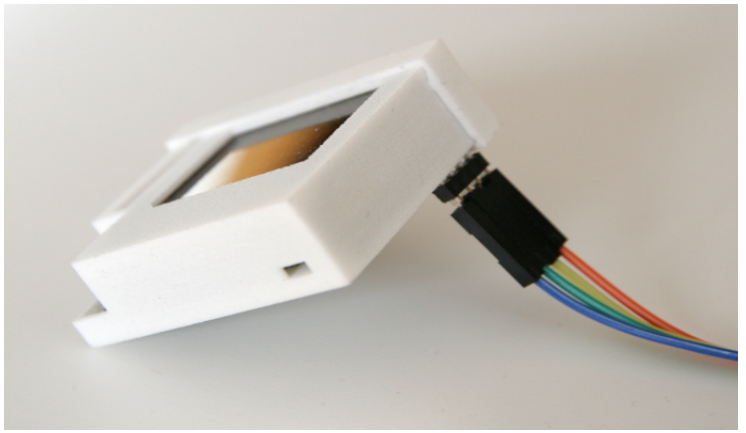
Pin 4 = SWDIO (data)
Pin 3 = SWCLK (clock)
Pin 2 = GND (ground reference)
Pin 1 = VCC (positive supply, typ. 3V)



Pin 1 indicator on plastic package

- Recommended installation when programming the board :

  - The module weights on the 4-pin header
    so electrical contact is facilitated.
  - If proper contact is not established,
    press slightly downwards.



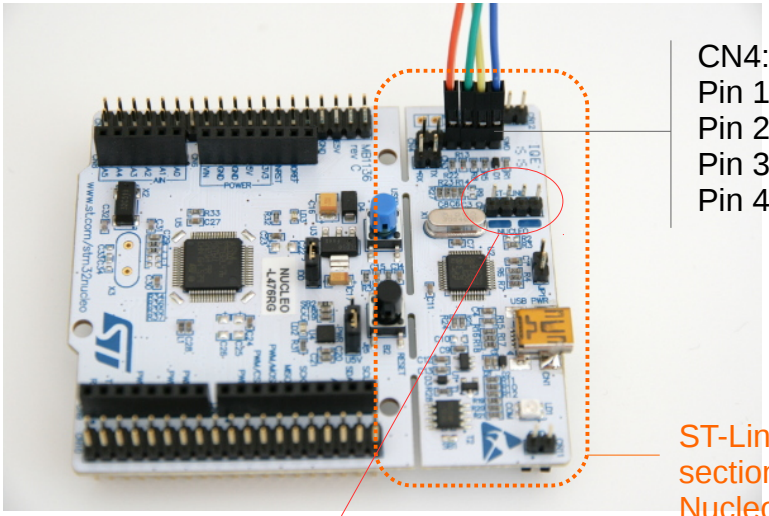
Other side of the wires: ST-Link/V2 device (examples)

> Identify the following signals on your ST-Link/V2 device :
SWIDIO, SWCLK, GND, VCC/VDD

> Connect them to the relevant wires

> *Below are a few examples :*

Nucleo Board used as ST-Link/V2 device (refer to STM32 Nucleo User Manual)



- Connector CONN2 must be removed to use Nucleo as stand-alone ST-Link/V2

- LimiFrog must be ON to provide 3V on Nucleo ST-Link/V2 VCC pin

Low-cost ST-Link/V2 compatible dongle