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NUCLEO-F746 Board Configuration

The NUCLEO-F746 board comes configured with a number of user hardware features. For example, USB, Ethernet, LEDs, Buttons, etc. The pins assigned to some of these features are in conflict with the previously designed I/O board. In order to use the I/O board, the following Solder Bridges (SBxx) and Jumpers (JPxx) must be removed.

Note that the I/O Board J4 and J5 match the NUCLEO board CN11 and CN12 (Pins 1-38). Pins 39 through 72 on the NUCLEO board are not used by the I/O board.

1. Remove the following, to disconnect the NUCLEO user USB (CN13)

SB127, SB125, SB133, SB132, SB187, JP4

1. Remove the following, to disconnect the NUCLEO user Ethernet (CN14)

SB13, SB160, SB164, SB178, SB181, SB182, SB183, JP6, JP7

1. Remover the following, to disconnect LEDs

SB120, SB139, SB118

INTERNAL POWER:

NUCLEO – Default

I/O Board – connect JP1, Pin1 & Pin2

EXTERNAL POWER:

NUCLEO – Connect JP3 Pins 1&2, for E5V.

(Note the existing I/O board should connect external +5V to C11 Pin 6, E5V. However, it is connected to +5V instead. This is OK, it will still work)

I/O Board – connect JP1, Pin2 & Pin3