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ASK A QUESTION

External programming Using nRF52-DK

5

nrf51422   nrf52-dk

Hello

I have a nRF52-DK and I am trying to programme an external designed by myself but this one contains the nRF51422 chip. I am using nRFGO Studio to upload the .HEX file.

Do you know if it is possible even with different chips?

I am following these connections between my board and nRF52-DK.

My Board(nRF51422) -> nRF52-DK

SWDIO -> SH_SWDIO (pin #4) on P20

SWDCLK -> SH_SWDCLK (pin #5) on P20

VDD -> SH_VTG (pin #3) on P20 and VDD (pin #1)

GND -> SH_GND_DETECT (pin #8) on P20 and GND

felipe
61 ●1 ●3 ●4
asked May 24 '16

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Comments

@Remi Isn't this explained in "More info here" in Wojtek's answer?
Petter Myhre (Oct 3 '16) edit convert to answer

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4 answers

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I believe the issue OP may of been having was that he's using pin 1 instead of pin 2 for VDD. This is my current setup and it's working well for programming an UNPOWERED external board.

Remi
51 ●2 ●3
answered Oct 9 '16

```
nRF52-DK            Custom / External Board


VDD ------+-------------> VDD
          /
VTG ----+

GND -----------+-------> GND
              /
GND DETECT ---+

SWD IO ----------------> SWD IO
```

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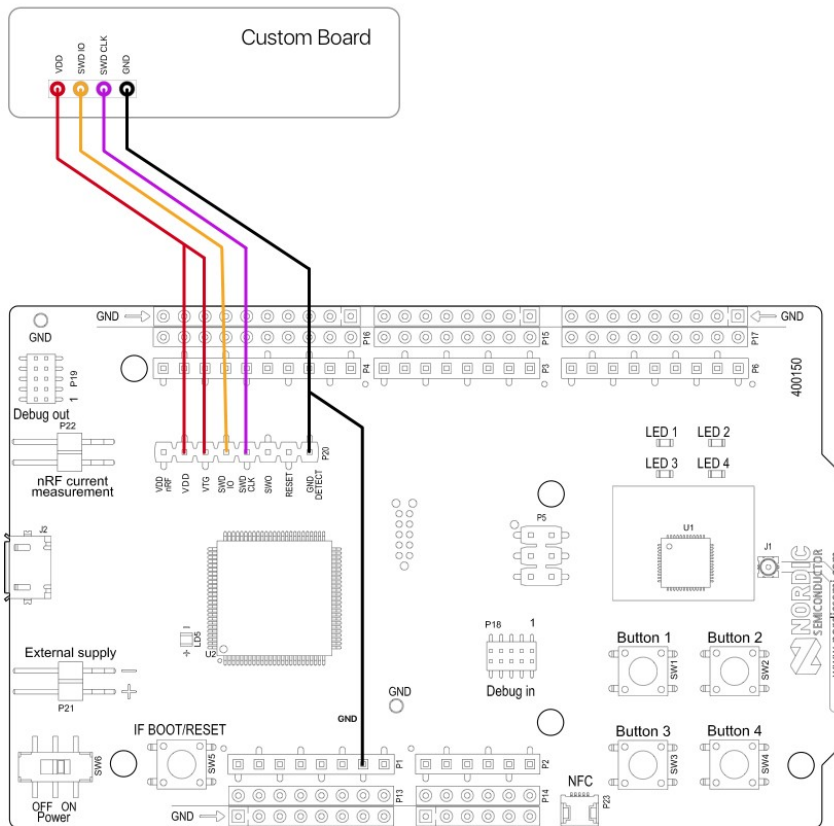
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```
SWD CLK ----------------> SWD CLK
```

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3

It is possible. I am using P19 on nRF52-DK, and i just connect 4 lines from it: VCC(pin1), SWDIO(pin2), GND(pin3), SWDCLK(pin4 and wire them to corresponding pins on nRF51 chip. I am programming/debugging without problems that way.

Wojtek
3402 ●3 ●24 ●27
answered **May 24 '16**

updated **May 24 '16**

External (nRF51) chip has to be powered to be detected by programmer that way (if not, nRF52-DK onboard nrf52832 will be detected only).

More info here

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2

GND DETECT is not necessary.

acha
71 ●6 ●3
answered **Jan 10 '17**

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0

This question is still outstanding. Can someone please answer. From what I gather it should be possible using the P20 pins. Can someone please please please provide a wiring diagram for connecting P20 to SWIO, SWDLK, VDD & GND on an external board. Also explain what we are supposed to do when our external boards are powered by a 3V battery. Do we take the battery out and power it from nRF52-DK?? Asking simply because I don't have the correct connector for P19 :)

Remi
51 ●2 ●3
answered **Oct 2 '16**

ferdep
1 ●1
updated **Nov 1 '17**

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