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External programming Using nRF52-DK

nrf51422 nrf52-dk

Hello

felipe
61 ●1 ●3 ●4

asked May 24 '16



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

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@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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5

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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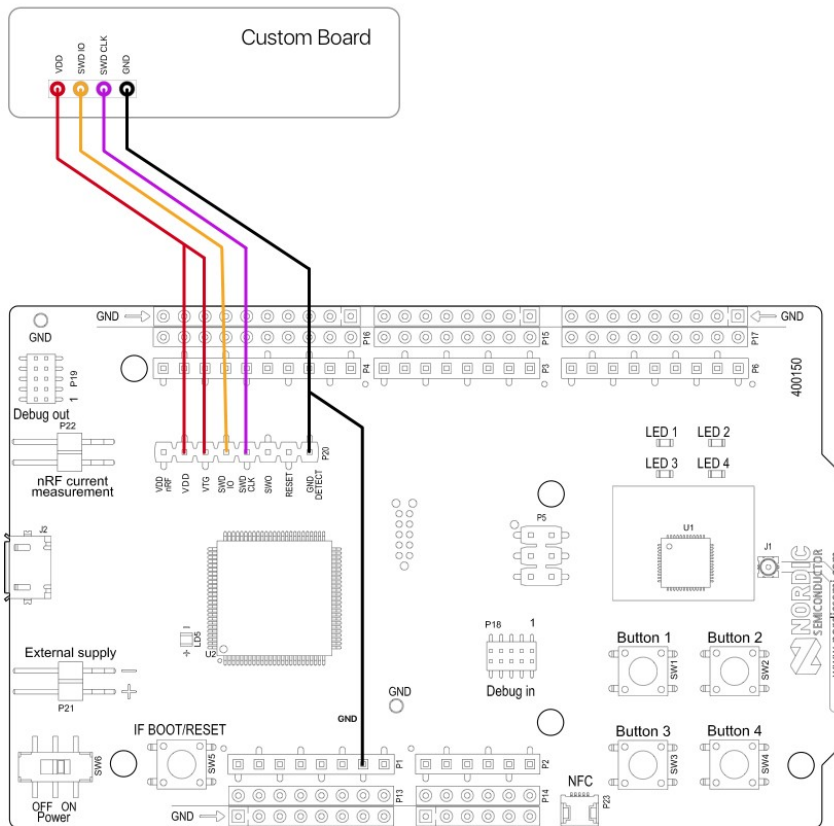
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SWD CLK -----> SWD CLK

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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 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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