



[SOLVED] need help on the dsPIC33FJ64GP802

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1. 12th December 2011, 03:07 [#1](#)

need help on the dsPIC33FJ64GP802



I have a dsPIC33FJ64GP802 and the PICKIT2 Programmer I made Adapter for the PICKIT2

- 1) pin 1 MCLR
- 2) pin 4 PGED
- 3) pin 5 PGEC
- 4) pin 8 VSS
- 5) pin 13 VDD

this is the Adapter to the PICKIT2 I hope this right it my first time do I need to connect to pin28 AVCC and pin 27 AVSS I have program the dsPIC33FJ64GP802 was OK but the next time I try to test it Failed to read and Erase

What I need to no is Why the the programmer with the software say Failed on all the test on the dsPIC33FJ64GP802 when the Voltage was 3.3v and it program the Chip OK and now it Failed this was for the Wib Server from Silicon Chip project and when the voltage is ok in the project and it will not work.

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2. 12th December 2011, 09:53 [#2](#)

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Re: need help on the dsPIC33FJ64GP802

Those look OK but you must connect all the VSS pins together and all the VDD pins together. The device also has an on-board regulator so you should connect a capacitor between Vcap and VSS as mentioned in the data sheet.

Keep the adapter wires as short as possible and if you are programming in-circuit, make sure nothing is loading the -MCLR, PGEC and PGED pins.

Brian.

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2. 12th December 2011, 11:20 [#3](#)

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Connect AVDD to VDD. Connect AVSS to VSS. Connect both VSS together. And remember to connect a capacitor (4.7uF to 10uF) between VCAP/VCORE to VSS (pin 19 and 20) (VERY IMPORTANT! When I didn't connect it, my PICKIT2 didn't even detect the dsPIC).

Hope this helps.
Tahmid.

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2. 12th December 2011, 15:50 [#4](#)

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Re: need help on the dsPIC33FJ64GP802

Also, if you run high frequency (or otherwise cause high current draw by MCU) you may try separate power supply instead of powering dspic from pickit. I had such situation (although with dsPIC30, which has MUCH higher current draw) where after programming voltage was falling so much, that it caused BOR and pickit couldn't detect mcu (which was wierd to me, because code worked fine despite pickit caliming that mcu is not present and that verify failed)

3. 12th December 2011, 17:34 [#5](#)

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Re: need help on the dsPIC33FJ64GP802


I don't think that this kind of a problem will arise when using dsPIC33. I have programmed the dsPIC33 to be running at 80MHz (internal RC with PLL as well as external crystal with PLL) from PICKIT2. I didn't face any problem. Maybe it's because the dsPIC30 runs off 5V and consumes more current.

Hope this helps.
Tahmid.

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2. 12th December 2011, 23:45 [#6](#)

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Re: need help on the dsPIC33FJ64GP802

One thing is sure: if your pickit recognizes the target correctly, the ICSP connections are made right.
