

Re: AD7714 help

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Prakruthi wrote:

If you use a MCU with a SPI peripheral, it could be set to the wrong SPI mode. Hook up a digital scope or logic analyzer to the SCL,CS#, DIN,DOOUT pins, and compare the diagrams with the datasheet, make sure the data gets transferred on the right clock edge. Then try write/read back again, and look at the interface to see if the correct value is passed, and then see if this same value makes it all the way to the application.

Hi,

I did compare the signals with the clock and found out that the data is not getting transferred on the right clock edge. How do I set the clock sync right. How do I determine what the right clock frequency for the SPI transfer would be.

It depends on the SPI master you're using... if it's halfway decent, it has configuration bits for SPI clock polarity, or SPI mode. Check the datasheet. This is something else than the SPI clock frequency, which may be OK. If you want more help, you'll need to post what device you're using to talk to the AD7714.