Search…

Can a MCP3208 driven by 5V interface with Pi?

Post a reply

3 posts

by **lilzz** » Mon Apr 07, 2014 8:42 pm

The MCP3208 chip is driven by VDD and VREF of 5.0V, can DIN , DOUT and CLK connect to the Pi?

Probably No?

Posts: 319

Joined: Sat Nov 30, 2013 5:27 pm

by **FLYFISH TECHNOLOGIES** » Mon Apr 07, 2014 9:10 pm

Hi,

> lilzz wrote:The MCP3208 chip is driven by VDD and VREF of 5.0V, can DIN , DOUT and CLK connect to the Pi?

When you face situation like this one, you should split it into two of them:
- can you connect **inputs** (from GPIO perspective) directly,
- can you connect **outputs** (from GPIO perspective) directly.

Inputs can be simply "converted" with a voltage divider made out of two resistors.

For getting answer about outputs, you have to check related datasheet (get used to this, it contains more reliable answers than you can get in forums). The datasheet says that if you connect GPIO output directly to this MCP input, you're out of specification. So, a voltage level converter is needed.
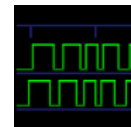
Best wishes, Ivan Zilic.
Running out of GPIO pins and/or need to read analog values?
Solution: http://www.flyfish-tech.com/FF32

by **joan** » Mon Apr 07, 2014 9:15 pm

DIN and CLK will be outputs from the Pi so they should be fine. DOUT will be an input to the Pi at circa 5V. Probably best to use a resistor divider pair to knock that down to a Pi safe 3.3V.

Posts: 1752

Joined: Thu Oct 03, 2013 7:48 am

Location: Ljubljana, Slovenia

Posts: 6336

Joined: Thu Jul 05, 2012 5:09 pm

Location: UK

Search This Topic

Post a reply

3 posts

Return to General discussion

Jump to: General discussion   Go

Who is online
Users browsing this forum: Bing [Bot], davidcoton, partis, stubright, TimG and 43 guests

Board index

The team

Quick Start   Downloads   Buy Codecs   Forum   FAQs   About