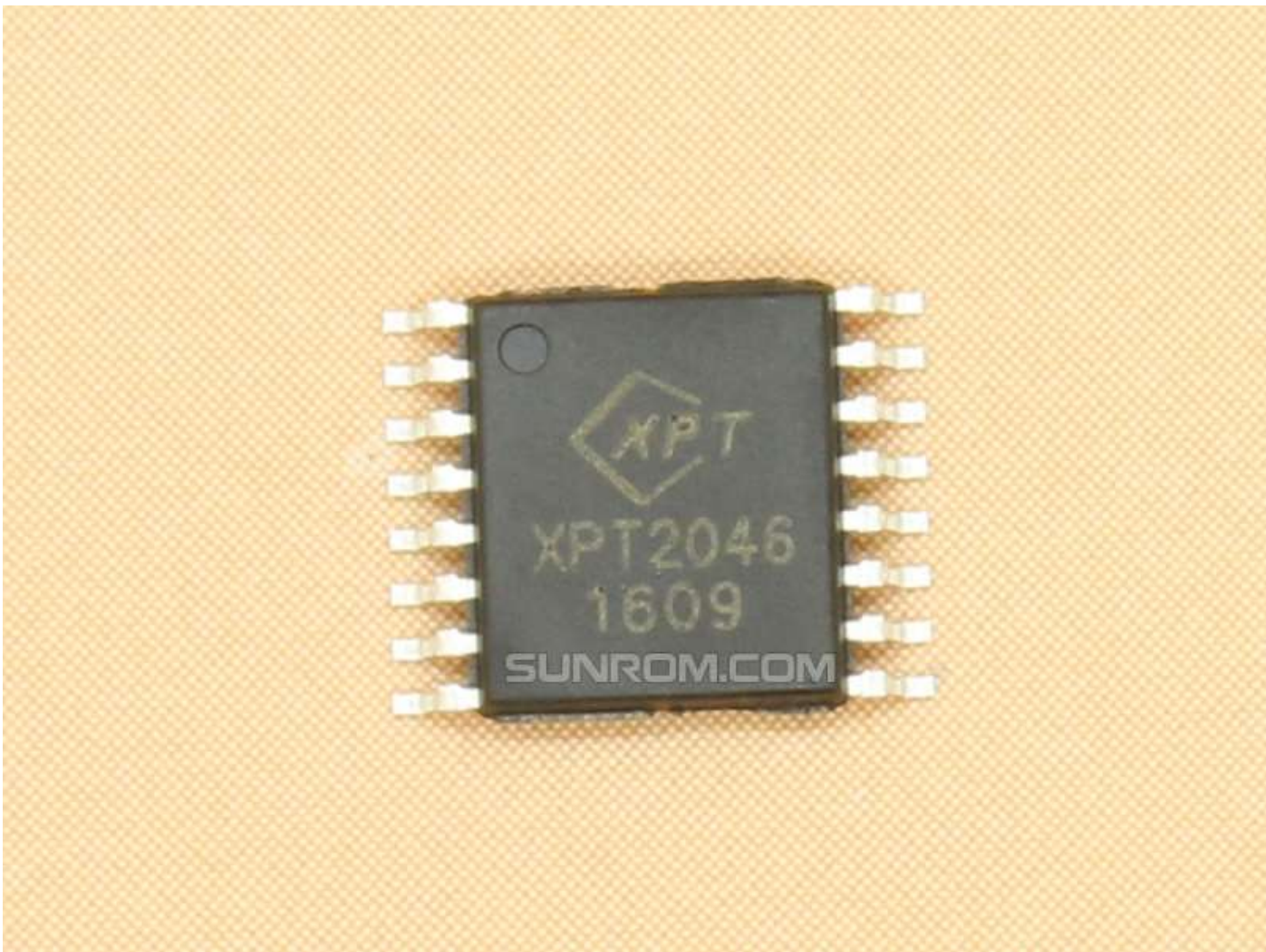


XPT2046 (ADS7843) - Touch Screen Decoder IC

4-wire resistive touch screen decoder



(/media/product/557.jpg)

Product Code 4109

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XPT2046 (ADS7843) - Touch Screen Decoder IC

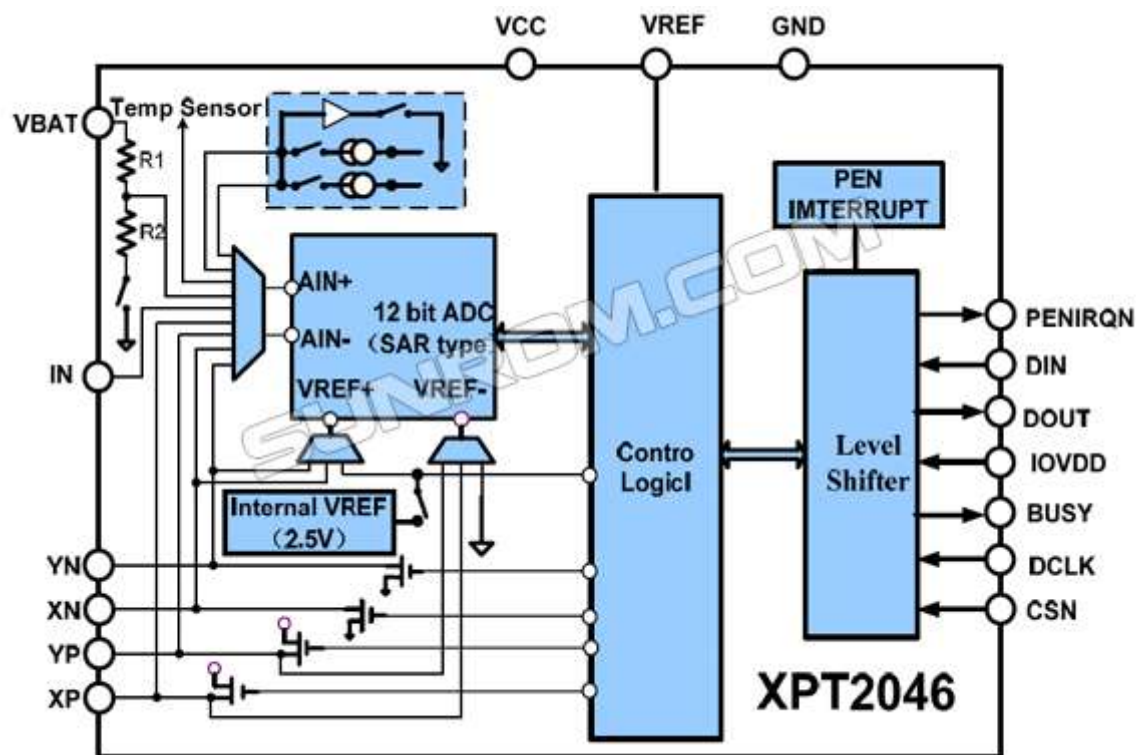
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The ADS7843 / XPT2046 (100% Equivalent ICs) is the most popular decoder IC for resistive type touch screen. You will find such IC in almost any commercial unit. It is 4-wire resistive touch screen controller that incorporates a 12-bit 125 kHz sampling SAR type A/D converter. The XPT2046 can detect the pressed screen location by performing two A/D conversions.

You can use your microcontroller's SPI to read/write the device.

There is a IRQ/PEN signal output, that only when we press the touch panel, the IRQ signal will become low. When released, it will become back to high.

IC Package SOP16 / SSOP16



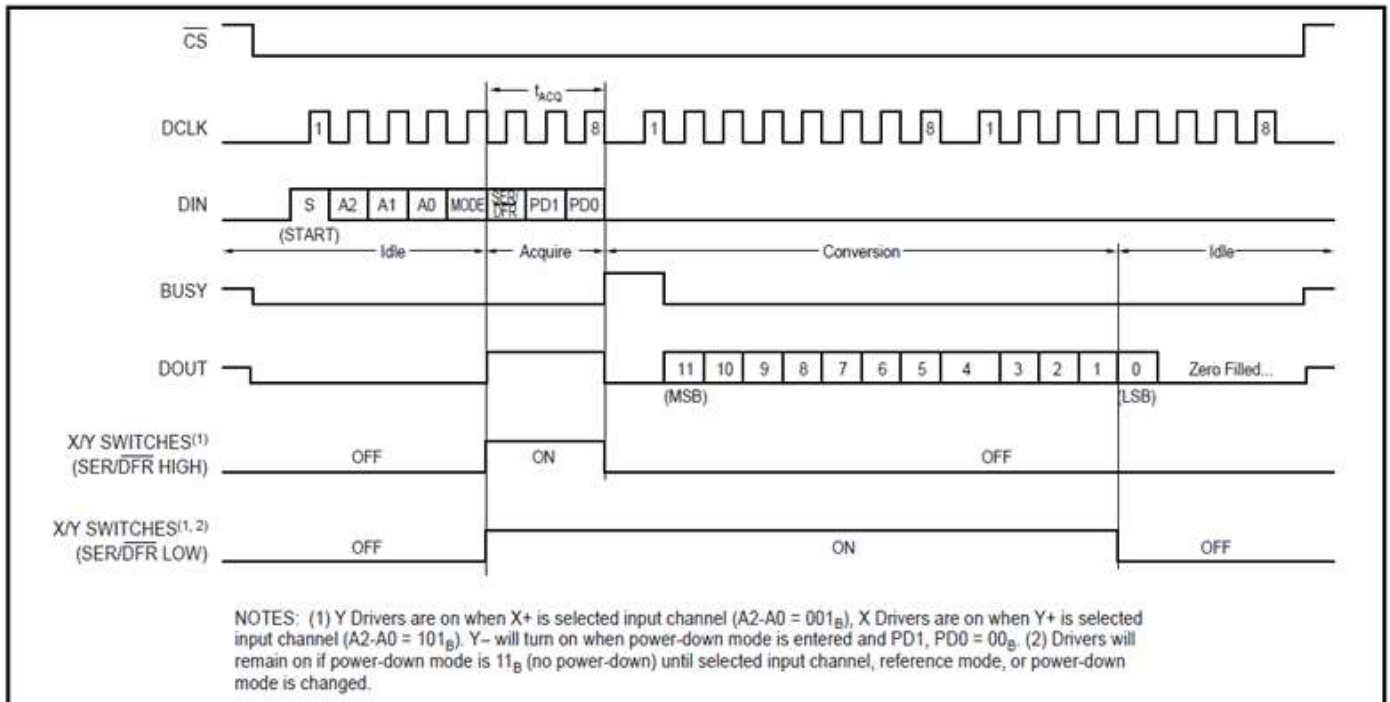
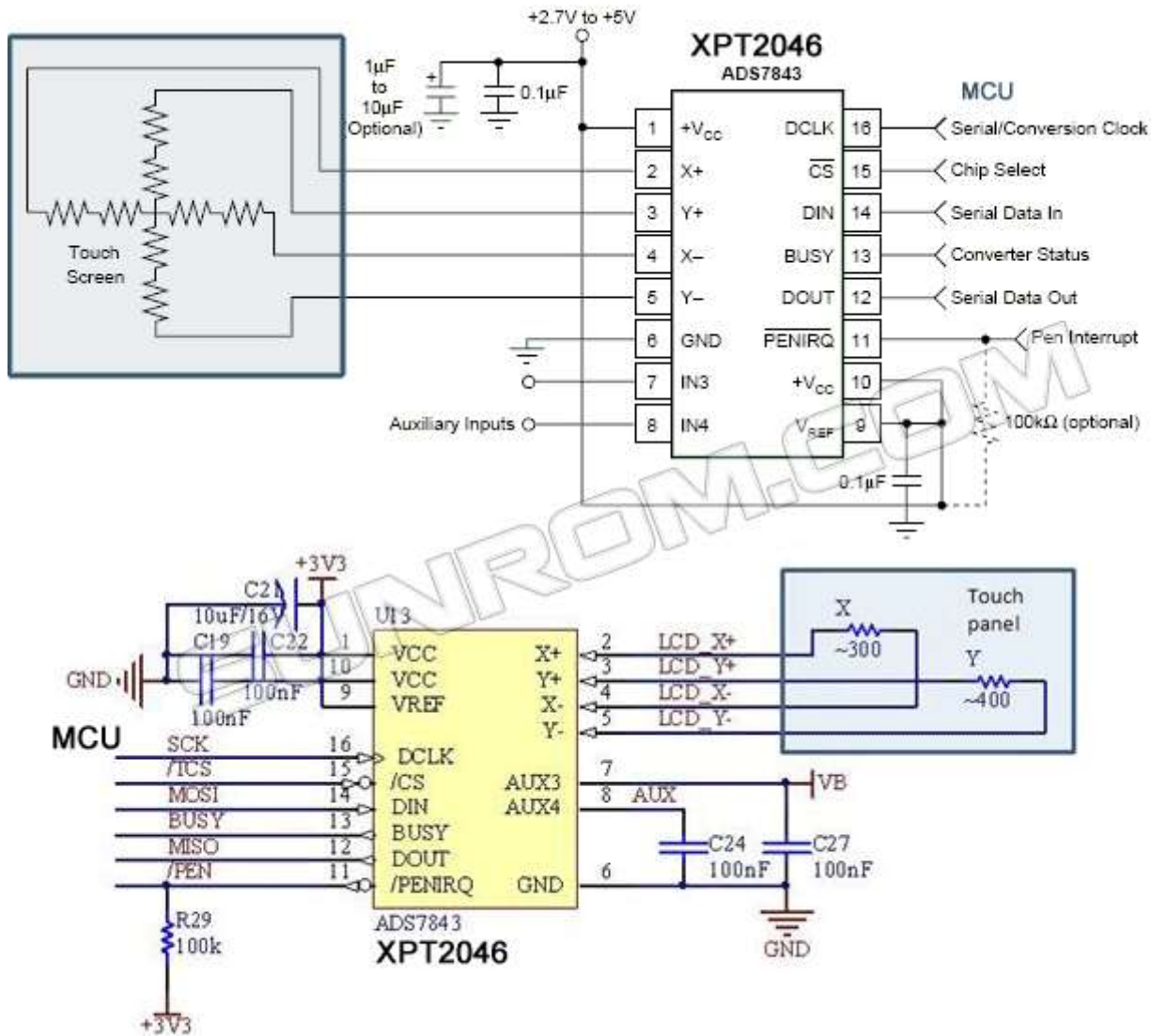


FIGURE 5. Conversion Timing, 24 Clocks per Conversion, 8-bit Bus Interface. No DCLK Delay Required with Dedicated Serial Port.

Related Links

- TI's ADS7843 (<http://www.ti.com/product/ads7843>) for Datasheet and Application Notes
- Google Search (<https://www.google.co.in/search?q=ADS7843>) for Library Sample Code and Projects