Re: uC and LCD (or uC and LCD controller) interfacing

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- *From*: linnix <me@xxxxxxxxxxxxxxxxx>
- *Date*: Tue, 21 Aug 2007 08:54:15 −0700

On Aug 21, 7:15 am, Tim Wescott <t...@xxxxxxxxxxxxxxx> wrote:

> On Tue, 21 Aug 2007 03:58:34 −0700, Ajab wrote:
>
> > Can anyone give me any application notes/links which will help me to
> > understand the uC and LCD (or uC and LCD controller) interfacing ?
>
> Have you done web searches?
>
> An LCD segment turns dark (or light) when you apply voltage, and will get
> stuck that way if the voltage stays on. So an LCD controller applies a
> square wave to the segments you want to turn on −− that's a big part of
> the reason you need a controller instead of just logic and some resistors.

Actually, you can do it with logics and DC/DC converters. I am
driving an LCD panel by toggling port pins only, but it's using up all
the micro processing power. So, in theory, you can build an LCD
controller with standard CPLD, FPGA or ASIC. For high volume, ASIC w/
dumb uC might be cheaper than LCD uC.

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