

## Re: VGA

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*Source:*

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2006-08/msg00567.html>

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- *From:* "Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com>
  - *Date:* Tue, 8 Aug 2006 09:05:53 -0700
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That would certainly be appreciated! My address is ptobey <at> instrument <dot> com. We use OrCad, or you can PDF it. You didn't have any problems with bus contention with that resolution?

Thanks!  
Paul T.

"Javier Grijalba" <Jgrijalba@xxxxxxxxxxxxxxxxxxxxxx> wrote in message <news:op.tdyiiqy0t6h75n@xxxxxxxxxx>

Hi Paul,

you can use the ADV7125

<http://www.analog.com/en/prod/0..ADV7125.00.html>

I tested the resolution of 1024x768 with the ADV7125 connected directly to the PXA-270 and works perfect.

I can send you the schematic if you want.

Best regards

Javier Grijalba

On Wed, 02 Aug 2006 09:42:47 +0200, Valter Minute <v\_a\_l\_t\_e\_r.m\_i\_n\_u\_t\_e@xxxxxxxxxxxxxxxxxx> wrote:

"Paul G. Tobey [eMVP]" <p space tobey no spam AT no instrument no spam DOT com> wrote in <news:O4YJ2NatGHA.644@xxxxxxxxxxxxxxxxxxxxxx>:

Thanks, Dean. Maybe we can talk them out of the source, at least. That would future proof it a bit.

If anyone has some part numbers, design suggestions, etc. for connecting LCD outputs from PXA to VGA, let me know.

I've got a board that drives a VGA monitor from a PXA270 and it works quite well, but I'm not a hardware designer so I can't help you much there (if you need more information, contact me via e-mail and I'll give you the contact information of the people that build the board). From a software point of view, the VGA refresh rate, even at 640x480

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could be a problem for the PXA if you need to drive slow external peripherals (ex: PCMCIA boards or ethernet adapters on local bus) or other devices that uses the external BUS to access RAM (quick capture interface). If you don't configure the timings of the MSC\* registers carefully you may experience some flickering on the display. I never tried to reach 800x600 or higher resolutions but you may experience some problems since the LCD controller of the PXA needs to access the RAM quite often and quickly, since it has a small FIFO.

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Javier Grijalba  
[www.positivesystems.com](http://www.positivesystems.com)  
Touch Panel – PC Systems

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