

Re: Oscilloscope Shopping on a \$2000.00 Budget

Source: <http://sci.tech--archive.net/Archive/sci.electronics.design/2007-10/msg01123.html>

- *From:* nico@xxxxxxxxxxx (Nico Coesel)
 - *Date:* Sun, 07 Oct 2007 11:31:27 GMT
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Jan Panteltje <pNaonStpealmtje@xxxxxxxxxx> wrote:

On a sunny day (Sat, 06 Oct 2007 19:16:18 -0500) it happened Spehro Pefhany <speffSNIP@xxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in <739gg3tft7naau4f6t0893slots3snkub2@xxxxxxx>:

On Sat, 06 Oct 2007 21:22:36 GMT, the renowned Jan Panteltje <pNaonStpealmtje@xxxxxxxxxx> wrote:

On a sunny day (Sat, 06 Oct 2007 20:12:33 GMT) it happened D from BC <myrealaddress@xxxxxxxxxx> wrote in <3gqfg359lb9va92fe236m147nfqgvuk9ge@xxxxxxx>:

I guess stay away from the Nagafoogitzosushi scopes :)

D from BC

With a 200\$ budget, and time on your hands, how about designing and building your own.

\$2000 CAD budget, he said (= USD 2015 = EUR 1436). That's enough to buy a decent scope.

Yes, was a type, I ment 2000, sure you can buy anything, but as to the nature of this group designing seems more fun.

There may be other reasons to buy, like 'a tek loks good in my workshop', etc... there are people who collect stuff like that... impresses customers.

Re: Oscilloscope Shopping on a \$2000.00 Budget

How about 'a bought oscilloscope works out of the box'?

How about the trigger circuitry? I think that might be the challenge, and a quite difficult one without proper test equipment. ;-)

Not sure, we have not specified any parameters yet, but if it is sampling at say 200MHz continuously, you can trigger at time t and display from $t - x$.

Trigger is then a simple hardware comparator in the FPGA.

Maybe even use the FPGA internal blockrams for the grab.

I did this for TV sync slice, auto trigger in a Spartan2.

More challenging for me would be a small say 500MHz wide, 500x gain, variable gain amp.

The biggest job is not the hardware, it is the software that takes most of the development time. I estimate an DSO is 5% hardware, 95% software. The input circuitry poses some interesting challenges though.

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Reply to nico@nctdevpuntil (punt=.)

Bedrijven en winkels vindt U op www.adresboekje.nl

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