

## Re: need small PAL with SR latch

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-06/msg03521.html>

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- *From:* "colin" <[no.spam.for.me@xxxxxxxxxxxxxx](mailto:no.spam.for.me@xxxxxxxxxxxxxx)>
  - *Date:* Sat, 25 Jun 2005 16:54:08 GMT
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"Joerg" <[notthisjoergsch@xxxxxxxxxxxxxxxxxxxxxx](mailto:notthisjoergsch@xxxxxxxxxxxxxxxxxxxxxx)> wrote in message  
[news:cyeve.33892\\$J12.6234@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:cyeve.33892$J12.6234@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

> Hello Colin,

>

>> all i need is 1 nor, 1 nand, 1 sr latch, 2 xor, and a 1 bit tri state  
>> buffer, I could probably do it with a very fast LUT too but im not sure  
if u

>> can feedback data lines to address lines reliably unless its clocked,  
>> otherwise thats a few diferent packages even if i try and convert some  
of

>> the gates etc.

>>

>> A gal16v8z doesnt seem to consume much power unless they are hiding it  
well

>> in the data sheet, oh wait thats in standby, at 10mhz its 55ma but im  
not

>> pumping the clock line so maybe itl be a lot lower.

>

> Look at "Normalized Icc versus Freq" in the lattice data sheet on page  
> 19. It doesn't exactly appear to be a static CMOS behavior, there is a  
> pretty stiff pedestal at 0MHz.

>

> What really irks me and is acutally often the main reason why I do not  
> use GALs in my designs is the cost. Your 16V8Z, for example, gobbles a  
> whopping three to four (!) Dollars per chip. No thanks. I can do that  
> with logic for 50 Cents or so and chances are pretty good that my  
> clients can buy exactly those same logic chips 15 years from now without  
> any problems. From half a dozen sources.

>

yes there seems to be lots of difernt parts of the same sort, maybe they  
would be cheaper otherwise, or if you didnt keep designing them out HA ! the  
cheapest I found was 70p @ qty 100

Maybe it has an internal clock running for some reason ? bias generator  
perhaps ?

I wonder if the lattice software predicts supply curent im just tryin to get

to grips with that software now.

Colin =^,^=

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• **Follow-Ups:**

- ◆ **Re: need small PAL with SR latch**  
◇ From: Joerg

• **References:**

- ◆ **need small PAL with SR latch**  
◇ From: colin
- ◆ **Re: need small PAL with SR latch**  
◇ From: Joel Kolstad
- ◆ **Re: need small PAL with SR latch**  
◇ From: colin
- ◆ **Re: need small PAL with SR latch**  
◇ From: Joerg
- ◆ **Re: need small PAL with SR latch**  
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