

Re: TTL signal

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-12/msg02437.html>

- *From:* Phil Hobbs <pcdhSpamMeSenseless@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 18 Dec 2008 17:32:28 -0500
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John Larkin wrote:

On Thu, 18 Dec 2008 09:05:19 -0500, Phil Hobbs
<pcdhSpamMeSenseless@xxxxxxxxxxxxxxxxxxxx> wrote:

John Larkin wrote:

On Tue, 09 Dec 2008 14:15:11 -0800, John Larkin
<jjlarkin@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

On Tue, 9 Dec 2008 12:20:59 -0800 (PST),
jamie_kriebel@xxxxxxxx
wrote:

On Dec 9, 3:14 pm, Phil
Hobbs
<pcdhSpamMeSensel...@xxxxxxxxxxxxxxxxxxxx>
wrote:

jamie_krie...@xxxxxxxx
wrote:

I'm
trying
to
convert
an
analog
signal,
150mV,
3-5nS
pulse
width
to
a
TTL

Re: TTL signal

signal.

What sort of
TTL are
you going
to use with
a 3 ns
pulse????

Cheers,

Phil Hobbs

I'm looking to use the TTL
as a trigger pulse for an NI
scope
application. So the pulse can
be stretched longer than the
3nS pulse.
The 3-5nS pulse is coming
from a photodiode circuit on
a Cobolt Tango
Laser.

I assume the scope has an analog trigger
input, with programmable
trigger level. So maybe all you need is a
linear amplifier.

Like this, maybe:

<http://www.minicircuits.com/pdfs/ZX60-6013E+.pdf>

This is likely a single MMIC in a can, so
probably inverts the signal.

If the scope really needs TTL, of course we
could sell you one of
these...

<http://www.highlandtechnology.com/DSS/T860DS.html>

John

Hey, it works!

ftp://66.117.156.8/3ns_TTL.jpg

Re: TTL signal

That's a 3 ns, 100 mV input and 4 volts out. It even works with an 80 mV, 1 ns input, still 4 volts out. I'm sort of impressed!

John

I just built one of those amps into a 6 GHz microwave setup yesterday. 16 dB gain at 1 GHz, 12 dB at 6 GHz, \$50 with nice gold-plated SMA connectors. Not bad.

BTW John, could you set up your FTP server to accept PASV? I have to download those pictures using command-line FTP and look at them in a photo editor, because Mozilla browsers always want to use passive-mode FTP.

Cheers,

Phil Hobbs

Hi, Phil,

I asked my ISP guys to enable PASV, and they replied that PASV is the responsibility of the client, not the server, and they demonstrated that they could access my site in PASV mode. They say...

"PASV or passive mode is a setting in the ftp client not on the server. Some web browser's ftp clients are severely broken -cough- Internet Explorer -cough. They might need to use a stand alone ftp client."

Hey, I tried.

John

John,

Thanks. My FTP server has settings to enable/disable both active and passive FTP. If it's switched on at their end, it's probably a firewall issue.

Cheers,

Phil Hobbs

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