

# Re: ethernet card

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.repair/2005-11/msg00325.html>

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- *From:* James Sweet <[jamesweet@xxxxxxxxxxxxx](mailto:jamesweet@xxxxxxxxxxxxx)>
  - *Date:* Mon, 07 Nov 2005 06:58:39 GMT
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CJT wrote:

P. Thompson wrote:

On Sun, 6 Nov 2005, CJT wrote:

CJT wrote:

Geoffrey S. Mendelson wrote:

In article <436CF621.70004@xxxxxxxxxxxxx>, CJT wrote:

You sure  
about  
that? My  
recollection  
is that  
Gigabit  
uses all  
8.

I'll check, I've don't think so, but occasionaly I'm wrong. :-)

Re: ethernet card

I Google'd for it, and this is the first reference I found. But I'm fairly certain I've read it elsewhere, too, including in a textbook on networking:

<http://www.hardwaresecrets.com/article/231/2>

FWIW, here's a cite with a little more impressive credentials:

[http://www.cisco.com/en/US/tech/tk389/tk214/tech\\_digest09186a00](http://www.cisco.com/en/US/tech/tk389/tk214/tech_digest09186a00)

Figure 7 of the cisco site shows all four pairs in use.

I can say with certainty from experience that 10bt uses only two of the pairs, but 100bt and gigabit both use all four pairs. You have to make sure you use both wires from the same pair for each set of signals too, if you mix and match it doesn't work for 100 or gig, but 10 is slow enough that it doesn't seem to matter for short runs.

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