
Subject: Re: Using Socket to read wireless LAN router info page
Posted by [Carsten Lechte](#) on Tue, 09 Jan 2007 10:43:14 GMT
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Braedley wrote:

> about the signal to noise ratio (SNR), 20dB is either sufficient, or
> more than enough, depending on if it's a voltage ratio or a power
> ratio.

A minor point: dB ratings for a certain process do not depend on what quantity (amplitude or power) is being measured.
A 20 dB amplifier has an amplification factor of 100 in power and an amplification factor of 10 in amplitude:

$\text{dB} = 10 \log_{10}(\text{power1}/\text{power0})$ or
 $\text{dB} = 20 \log_{10}(\text{amplitude1}/\text{amplitude0})$

This can be confusing at first.
See <http://en.wikipedia.org/wiki/Decibel#Definition>

chl
