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FractalBrain 8 hours ago

I received my Analog discovery last week and am really happy with it. They really put some thought into it. I have not yet played with the spectrum analyzer, but it is there.

I just finished lab 11 today, so I rewarded myself with playing with the Nokia 5110 and the logic analyzer part of the Analog. Today I successfully used the logic analyzer to determine what letters were being sent from the micro-controller to the LCD. Very exciting!

So, the Analog discover is probably really useful for "standard" embedded and analog electronics and education and the spectrum analyzer will indeed give a plot of frequency vs. time. It essentially fits the requirements of a college educational electronics lab.

However, as Ragnar said, it is not suited to RF frequencies. This is more for making and troubleshooting embedded circuits (wired).

If you are designing a computer, or making a wifi card that works in GHz, you will need a much, much more, much expensive device. Even if you are making high powered embedded devices you will need something faster. And if you are interested in wifi you will probably want an actual radio with an antenna. USB devices (with associated software) do exist for doing RF spectrum analysis.

So, if you want to analyze wifi and high speed RF communication, you will probably need a USB radio dongle. The software often has a spectrum display.

If you want to analyze wired networks, then a normal computer with Wireshark will do (and perhaps a switch in monitor mode, or a hub). No spectrum display here. This is the land of packets and data frames.

If you want to analyze very high speed circuitry (i.e. computers and network hardware), or optical system, or radar hardware, then you need some reaaaaalllly expensive equipment.

If precision and accuracy are absolutely critical to a project, then you probably want something more robust with registered calibration.

But If you want to analyze and make basic circuitry with low speed micro-controllers, then this is awesome!! Especially as a learning tool!

Disclaimer: I'm still carrying the plastic case around trying to show my wife how cool my new toy is...I may be biased and I really have not used it that long:-)



Karen West Just now Thank you for that! I am printing it to a file for future reference when I may have the budget for these things! It's good to know which things work in which wireless and wired areas though - so thank you.

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