

## Re: Good UPS for network equip?

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*From:* w\_tom (w\_tom1\_at\_hotmail.com)

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You are fooling yourself if you think a UPS will solve networking problems. If AC electric is a reason for network problems, then the solution begins by finding a defective safety ground or eliminating the power supply that retail lists for less than \$50.

Solution to your network problem starts with running comprehensive diagnostic. One had intermittent problems. Ran the comprehensive diagnostic in the massive data exchange test – usually the last and optional test. Eventually, a defective NIC would lock out under this massive data transfer. Such comprehensive diagnostics assume you have two NICs from the same manufacturer.

Plug-in UPSes, such as the recommended Tripplite, connect computer directly to AC mains when not in battery backup mode. Where is the protection? Furthermore, these UPSes typically output some of their dirtiest electricity when in battery backup mode. If a network was suffering from line noise, then power the computer from a UPS in battery backup mode. The network would crash immediately. If not, then AC mains noise is not a reason for network failure.

One example of a UPS under light load is demonstrated. When in battery backup, the 120 VAC output is two 200 volt square waves with a 270 volt spike between those square waves. Dirtiest electricity is from that UPS in battery backup mode. But not problematic to any properly constructed computer. If that noise caused computer problems, then the computer hardware was defective when purchased or assembled.

Find the problem rather than trying to cure a symptom. IOW first identify the reason for a problem before speculating – before 'fixing' everything.

Another 'suspect' is existing cables. Also execute those diagnostics with computers connected together by a known good

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cable, no router, and not using existing building cables.

Even an ethernet cable plug or mismatched cable pairs can be reason for intermittent – which is why the loope (magnifying lens) is important for visual inspection of each RJ-45 connector. Identify reason for problem before fixing problem. Provided are tools to accomplish that. A UPS to fix the problem means the computer has defective hardware. Don't cure defective computer hardware with a UPS.

DaveC wrote:

- > *Have one client that keeps having network lock up. Have replaced*
- > *the router, but this doesn't help. Happens every 2 weeks, or so.*
- >
- > *There's so many UPS's on the market, I want to weed out the bad ones.*
- >
- > *What's your experience re. reliable and trash makes and models?*