

Power supply design software supports LED lighting

Power Integrations announced that the latest version of its popular power supply design software, PI Expert Suite 9.0, now includes support for its LinkSwitch-PL and LinkSwitch-PH LED-driver ICs and its recently introduced TinySwitch-4 off-line switcher IC family. Version 9.0 includes an enhanced schematics-manipulation tool. It also enables designers to upload the resulting BOM from the auto-generated schematic layout to selected, leading design-fulfillment distributors.



PI Expert Suite 9.0 improves the productivity of power supply design teams by greatly reducing the time to first prototype and by slashing the number of prototype iterations required to reach a finished product. The software now includes support for solid-state-lighting products, enabling LED designs to be optimized for CC, dimming and harmonic emissions. As with previous-generations, PI Expert Suite 9.0 generates a complete schematic of the power supply and offers power transformer optimization techniques, even specifying the transformer design and offering links to wound component manufacturers.

A heat sink calculation tool provides the designer with an estimation of the thermal design requirements for a new power supply which may be used to guide layout and

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mechanical prototyping decisions - avoiding iterations and wasted time. Enhanced PCB layout recommendations based on the IC device and package chosen allow the designer to minimize trace-induced EMI and board area, and also maximize electrical noise immunity and surge tolerance.

PI Expert Suite 9.0 can be downloaded at www.powerint.com/pi-expert [1]. Transformer prototypes resulting from the use of this software may be ordered through Power Integrations' Rapid Transformer Sample Service (RTSS); a quick-start guide describing how to create a compatible design file is available at <http://www.powerint.com/rtss> [2].

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Links:

[1] <http://www.powerint.com/pi-expert>

[2] <http://www.powerint.com/rtss>