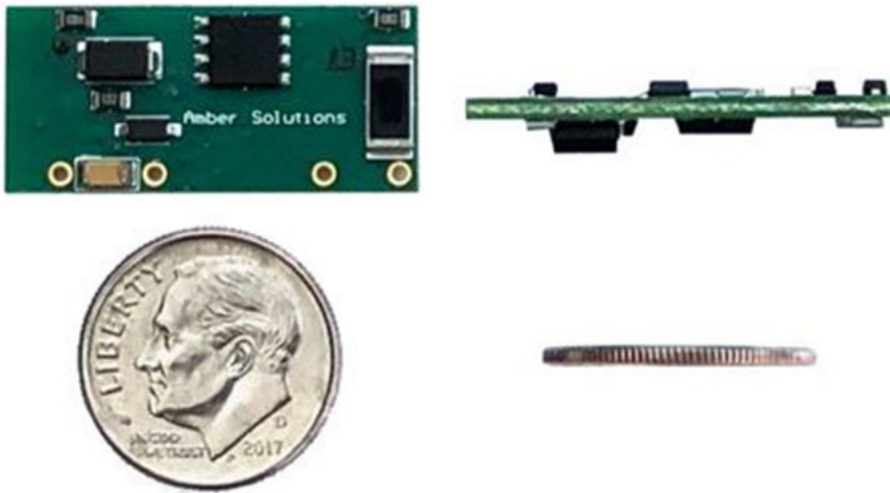


A Module for Solid-State Power Control

Written by Frederick Douglas
14. 04. 2020

Amber Solutions claims the solid-state digital control of electricity is possible in every device, appliance, power cord and endpoint through the patented Amber AC/DC Enabler and the Amber AC Switch.



The AC/DC Enabler is a patented, UL-certified and globally compatible 30 x 15 x 8mm solid-state digital power management and control system. Combined with the patented Amber AC Switch, the two foundational technologies represent a "breakthrough" in the software management of electricity through solid-state architecture. Amber says it has already integrated the technology into fully demonstrable solid-state products, such as a smart programmable retrofit circuit breaker.

The company also offers smart dimmer switches and smart outlets, both showcasing over 10 features within a single gang box footprint. The technologies are available for integration into products fitting into existing gang boxes, as well as an expansive range of other electrical products and appliances.

Amber solid-state technology is an advanced Digital Power Management and Control (DPMC) system-- a tiny solid-state device running power into micro-controllers, processors and RF devices directly from the AC main. The company claims it eliminates the need for bulky electromechanical components such as capacitors and magnetics, and reduces the component count by a factor of 2.5. Eventually, Amber says, it will put all components on a single silicon chip.

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The AMPE2W5 Amber AC/DC Enabler recently received UL recognised component certification for UL 1102. The enabler has a wide range of applications within internal, low-power solutions, particularly IoT functionality in wired smart products. Together with the Amber AC Switch, the core technologies are commercially ready for licensing to global manufactures of electrical products, appliances and smart systems.

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