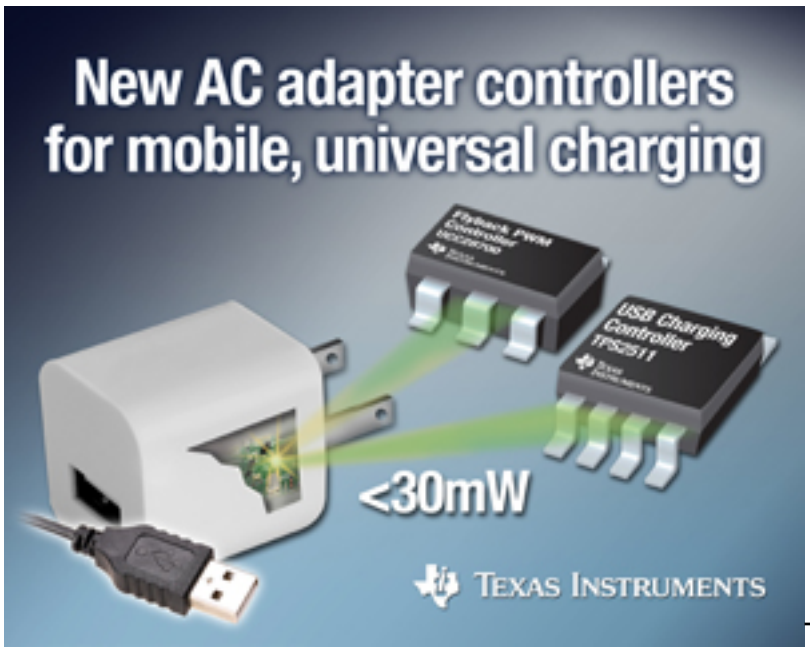
Power chips help conserve energy, speed adoption of universal charging



Texas Instruments introduced power management controllers that are said to save standby power to help smart phone users consume less electricity with their 5-W cube adapters, even when they are left plugged into the wall. According to the company, the UCC28700 primary-side controllers will enable smaller cubes, wireless power charging stations and other AC-powered equipment. TI also introduced the TPS2511, an intelligent USB charging port controller that complies with USB Battery Charging 1.2 specifications for charging adapters of popular smartphones or 5-V tablets. Features of the UCC28700 include: <30-mW standby power consumption, and 1.5-uA startup current requirement; it eliminates need for opto-feedback circuit; wide VDD input voltage range and hysteresis with low IDD standby current results in smaller capacitors; high-frequency allows smaller transformers; and requires no additional external circuitry. TI's TPS2511 intelligent USB charge controller meets the USB Battery Charging 1.2 specification, and provides additional charge algorithms to the system. It combines a current-limit USB power switch and a USB dedicated charging port identification circuit to automatically detect USB 2.0 and 3.0 data line voltages and provide the correct electrical signature to safely charge compliant devices.

Texas Instruments
800-477-8924, www.ti.com [1]

Links:

[1] http://www.ti.com