

Market News

Infineon's new 80 V DC-DC buck LED driver IC offers excellent dimming performance

Munich, Germany – 3 July 2019 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces the new LED driver IC ILD8150/E. It features an innovative hybrid dimming mode technology for achieving 0.5 percent of the target current. With its supply voltage range from 8 V_{DC} up to 80 V_{DC}, the driver IC provides a high safety voltage margin for applications operating close to safe extra-low voltage (SELV) limits. The driver IC is ideally suited for general and professional [LED lighting](#) applications with high dimming requirements.

The ILD8150/E offers a deep dimming performance without flicker and prevents audible noise. A PWM input signal between 250 Hz and 20 kHz controls the LED current in analog dimming output mode from 100 to 12.5 percent and from 12.5 to 0.5 percent in hybrid dimming mode, with a flicker-free modulation frequency of 3.4 kHz. The digital PWM dimming detection with high resolution and the low power shutdown perfectly match the ILD8150/E to microcontrollers. The device also has a dim-to-off function and a pull-down transistor to avoid LED glowing in dim-to-off mode.

Infineon's new ILD8150/E drives up to 1.5 A using a high-side integrated switch. The latter one with a low R_{DS(on)} of 290 mΩ (ILD8150) enables high power designs with an efficiency of more than 95 percent. It incorporates a soft-start function to protect the primary stage from abrupt current requests and a shunt resistor for adjustable maximum output current. Precise output current accuracy of typical 3 percent from one device to another under all load and input voltage conditions makes the IC perfect for e.g., tunable white and flat panel designs where current must be identical. Additionally, under voltage lockout (UVLO) for the bootstrap voltage and over temperature protection functions provide an ideal fit for professional LED lighting solutions.

Availability

The LED driver IC is packaged in a DSO-8 housing which enables wave soldering. Higher thermal performance can be achieved with the ILD8150E in a DSO-8 package

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with an exposed pad. Both variants can be ordered now. More information is available at www.infineon.com/ild8150 and www.infineon.com/ild8150e.



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