

A8434: 6-Channel High Efficiency Charge Pump White LED Driver

The A8434 high efficiency charge pump ICs offer a simple, low-cost WLED (white LED) driver solution for driving up to six WLEDs in various application configurations, either all six backlighting a single display, or for multiple displays, such as four WLEDs as the main display backlight, with the other two WLEDs used for backlighting a sub display or a low-current flash/torch. Using a proprietary control scheme (1x, 1.5x, and 2x), the A8434 can deliver well-matched WLED current while maintaining the highest efficiency and low EMI.

The WLED current is regulated over the entire range of Li+ battery voltage to provide uniform intensity. WLED brightness and on/off can be controlled for the main display and sub display/torch through 2 single-wire serial interface pins.

The A8434 is available in an MLP/QFN-16 space-conserving (3 × 3 mm footprint) ES package.