Triple Output LED Driver Drives Up to 24 <times> 500 mA LEDS and Offers 3,000:1 True Color PWM Dimming

Linear Technology's LT3496 2 MHz DC/DC converter is designed to operate as a three-channel constant current LED driver. Each of its three channels can drive up to eight 500 mA LEDs in series, enabling it to drive up to 24 × 500 mA LEDs at efficiencies up to 96 percent. All three channels are operated by an independent True Color PWM signal, enabling each to be dimmed independently to ratios as high as 3,000:1. A fixed frequency, current mode architecture ensures stable operation over a wide range of supply and output voltages. A frequency adjust pin enables the user to program the frequency between 330 kHz and 2.1 MHz to optimize efficiency while minimizing external component size. The device senses output current at the high side of the LED, enabling buck, buck-boost or boost configurations. With an external sense resistor, the user programs the output current range of each channel. Each of the three independent driver channels uses an internal 750 mA, 45V NPN switch and has a built in gate driver for PMOS disconnect. Other features include open LED protection and thermal limiting. One thousand-piece pricing starts at $3.50 each.
Linear Technology
800-454-6327, www.linear.com [1]

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