

Freescale Semiconductor

Advance Information

Product Number: KIT34845EPEVME

Evaluation Kit - 34845, Low Cost 6 Channel LED Backlight Driver with Integrated Power Supply



Evaluation kit for the 34845 products, which represent high efficiency, LED drivers for use in backlighting LCD displays from 10" to 17" +. Operating from supplies of 5.0 V to 21 V, the 34845 series is capable of driving up to 16 LEDs in series in each 6 strings. The LED current tolerance in the 6 strings is within $\pm 2\%$ and is set using a resistor to GND.

PWM dimming is performed by applying a PWM input signal to the PWM pin which modulates the LED channels directly. The integrated boost converter uses dynamic headroom control to automatically set the output voltage.

Features:

- Input voltage of 5.0 to 21 V
- Boost output voltage up to 60 V
- 2.0 A integrated boost FET
- Fixed boost frequency to 600 kHz or 1.2 MHz
- OTP, OCP, UVLO fault detection, LED short/open protection
- Programmable LED current between 3.0 mA and 30 mA

Kit contains:

Assembled and tested evaluation board/module in anti-static bag.

CD-ROM containing:

- Supporting Documentation for featured device (may include datasheet, user's guides, app notes...etc)
- Schematic of evaluation board
- Bill-of-Material for evaluation board
- Instruction sheet for evaluation board
- Software and configuration files (if applicable)