PRODUCT BRIEF

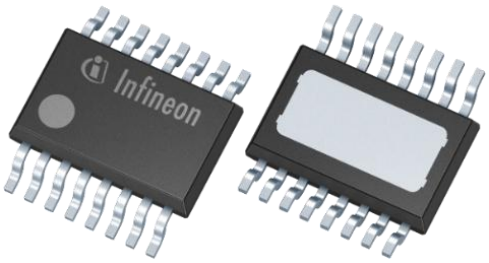
LITIX™ Interior TLD4020-4ET

LED Driver for RGBW Ambient Lighting

The TLD4020-4ET is a four channel device with integrated and protected output stages. It is designed to control RGB LEDs with a current up to 64.0625 mA as linear current sink (LCS), with outputs parallelable, and 6-bit per-channel current setting plus 5 independent PWM configurations. A key differentiator is the integrated MCU platform: a 32-bit Arm® Cortex®-M23 with 32 kB flash enables advanced on-chip color mixing/compensation, smooth transitions, and dimming without an external controller. It also includes an 11-bit differential ADC (0–8 V) and two GPIOs for additional sensing/control and local interfacing, in a compact RoHS-compliant PG-TFDSO-16 package.

Key benefits

> Easy to program a well-known MCU
> Maximal application flexibility
> Compact for smallest-space applications



Target applications

> Four channel LED driver for automotive interior lighting applications
> Contour lighting and surface lighting requiring single LED

Technical Information

Specifications	TLD4020-4ET
Topology	Linear
Channel	4
Max. output current per channel	64.0625 mA
PWM engine	16-bit
MCU	Integrated Arm® Cortex®-M23 with 32 kB flash and 3kB RAM
Interface	LIN with LIN-auto-addressing
Package	PG-TFDSO-16

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