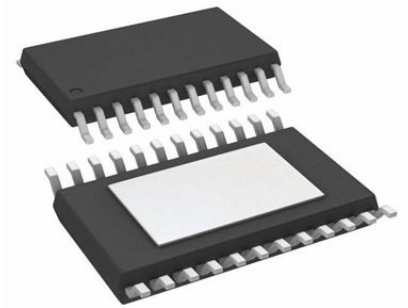


## LED Driver 2 Segment Automotive 24-Pin HTSSOP EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** HTSSOP-24

**Product Type:** Optoelectronics

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The TPS92518-Q1 family of parts are dual channel buck LED current controllers with a SPI communications interface. The serial communication interface provides a singular communication path for multichannel and platform lighting driver module (LDM) applications.

The TPS92518-Q1 uses a quasi-hysteretic control method that supports switching frequencies ranging from 1 kHz to 2 MHz. This control method enables superior, high frequency shunt FET dimming and also handles the demanding dynamic loads of adaptive LED matrix based headlamp systems.

Software programmable SPI set points (Precision Peak Current, Controlled Off-Time and Output Voltage Sense) enables designers to develop a single LED driver solution for multiple load configurations that can be quickly reconfigured for future LED driver design requirements.

The TPS92518-Q1 device has an input range up to 42 V. The TPS92518HV-Q1 is a high-voltage option with an input range up to 65 V.

## Key Features

AEC-Q100 Qualified for Automotive Applications

Device CDM Classification Level C5

Wide Input Voltage Range 6.5 V to 65 V

Two independent Buck LED Controllers

High Bandwidth, Quasi-Hysteretic Control

Adjustable High-Side Sense

Direct PWM Dimming Input

Cycle-by-Cycle Current Limit

SPI Communications Interface

Software configurable Set Points (8-bit)

Digital Calibration and Binning

Fault Monitoring and Reporting

Advanced, High Precision Dimming

255:1 Analog Dimming Range

High Frequency Shunt FET Dimming

## Recommended For You

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### **TPS61196PWPRQ1**

Texas Instruments, Inc

HTSSOP28

### **TPS92391RHBR**

Texas Instruments, Inc

VQFN32

### **TLC591161TPWRQ1**

Texas Instruments, Inc

TSSOP28

### **TPS92692QPWPTQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS92691PWP**

Texas Instruments, Inc

HTSSOP-16

### **TPS92691PWPR**

Texas Instruments, Inc

HTSSOP16

### **TPS92633QPWPRQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS61161QDRVRQ1**

Texas Instruments, Inc

WSON-6

### **TPS61194PWPRQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS92520QDADRQ1**

Texas Instruments, Inc

HTSSOP32

### **TPS92630QPWPRQ1**

Texas Instruments, Inc

HTSSOP16

### **TPS92691QPWPRQ1**

Texas Instruments, Inc

HTSSOP-16

**TPS92692QPWRQ1**

Texas Instruments, Inc

HTSSOP-20

**TPS65132SYFFR**

Texas Instruments, Inc

DSBGA-15

**TPS65132B2YFFR**

Texas Instruments, Inc

DSBGA15