
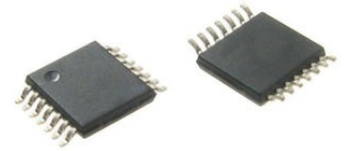


## LVDS Driver/Receiver 100Mbps 0.45V 14-Pin TSSOP T/R

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	TSSOP14
<b>Product Type:</b>	Drivers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The TLV246x is a family of low-power rail-to-rail input/output operational amplifiers specifically designed for portable applications. The input common-mode voltage range extends beyond the supply rails for maximum dynamic range in low-voltage systems. The amplifier output has rail-to-rail performance with high-output-drive capability, solving one of the limitations of older rail-to-rail input/output operational amplifiers. This rail-to-rail dynamic range and high output drive make the TLV246x ideal for buffering analog-to-digital converters.

The operational amplifier has 6.4 MHz of bandwidth and 1.6 V/ $\mu$ s of slew rate with only 500  $\mu$ A of supply current, providing good ac performance with low power consumption. Three members of the family offer a shutdown terminal, which places the amplifier in an ultralow supply current mode ( $I_{DD} = 0.3 \mu$ A/ch). While in shutdown, the operational-amplifier output is placed in a high-impedance state. DC applications are also well served with an input noise voltage of 11 nV/ $\sqrt$ Hz and input offset voltage of 100  $\mu$ V.

This family is available in the low-profile SOT23, MSOP, and TSSOP packages. The TLV2460 is the first rail-to-rail input/output operational amplifier with shutdown available in the 6-pin SOT23, making it perfect for high-density circuits. The family is specified over an expanded temperature range ( $T_A = -40^\circ\text{C}$  to  $125^\circ\text{C}$ ) for use in industrial control and automotive systems, and over the military temperature range ( $T_A = -55^\circ\text{C}$  to  $125^\circ\text{C}$ ) for use in military systems.

## Key Features

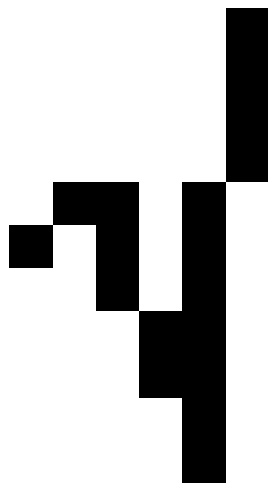
Rail-to-Rail Output Swing

Gain Bandwidth Product...6.4 MHz

±80 mA Output Drive Capability

Supply Current...500  $\mu$ A/channel

Input Offset Voltage...100  $\mu$ V



Input Noise Voltage...11 nV/

Hz

Slew Rate...1.6 V/ $\mu$ s

Micropower Shutdown Mode (TLV2460/3/5)...0.3  $\mu$ A/Channel

Universal Operational Amplifier EVM

Available in Q-Temp Automotive  
HighRel Automotive Applications  
Configuration Control/Print Support  
Qualification to Automotive Standards

## Recommended For You

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**SN65LVDS3486D**

Texas Instruments, Inc

SOP-16

**SN65LVDS3487D**

Texas Instruments, Inc

SOP16

**DS90C032TM**

Texas Instruments, Inc

SOP16

**DS90C031BTM**

Texas Instruments, Inc  
SOP16

**SN65LVDS31PW**

Texas Instruments, Inc  
TSSOP-16

**SN65LVDS33D**

Texas Instruments, Inc  
SOP-16

**SN65LVDS32D**

Texas Instruments, Inc  
SOP-16

**SN65LVDS31D**

Texas Instruments, Inc  
SOP

**SN65LVDS32PW**

Texas Instruments, Inc  
TSSOP16

**DS90UB954TRGZTQ1**

Texas Instruments, Inc  
QFN48

**DS90UB954TRGZRQ1**

Texas Instruments, Inc  
VQFN48

**SN65DSI83TPAPRQ1**

Texas Instruments, Inc  
HTQFP-64

**DS90UB947TRGCTQ1**

Texas Instruments, Inc  
VQFN-64

**DS90LV011AQM/NOPB**

Texas Instruments, Inc  
SOT23-5

**DS90UB924TRHSTQ1**

Texas Instruments, Inc  
WQFN-48