
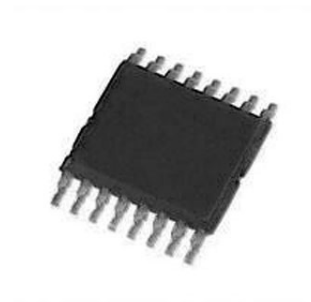


## LVDS Driver/Receiver 400Mbps 0.45V Automotive 16-Pin TSSOP Tube

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	TSSOP16
<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 DS90LV049Q is a dual CMOS flow-through differential line driver-receiver pair designed for applications requiring ultra low power dissipation, exceptional noise immunity, and high data throughput. The device is designed to support data rates in excess of 400 Mbps utilizing Low Voltage Differential Signaling (LVDS) technology.

The DS90LV049Q drivers accept LVTTTL/LVCMOS signals and translate them to LVDS signals. The receivers accept LVDS signals and translate them to 3 V CMOS signals. The LVDS input buffers have internal failsafe biasing that places the outputs to a known H (high) state for floating receiver inputs. In addition, the DS90LV049Q supports a TRI-STATE function for a low idle power state when the device is not in use.

The EN and  $\overline{\text{EN}}$  inputs are ANDed together and control the TRI-STATE outputs. The enables are common to all four gates.

### Key Features

AECQ-100 Grade 1

Up to 400 Mbps Switching Rates

Flow-Through Pinout Simplifies PCB Layout

50 ps Typical Driver Channel-to-Channel Skew

50 ps Typical Receiver Channel-to-Channel Skew

3.3 V Single Power Supply Design

TRI-STATE Output Control

Internal Fail-Safe Biasing of Receiver Inputs

Low Power Dissipation (70 mW at 3.3 V Static)

High Impedance on LVDS Outputs on Power Down

Conforms to TIA/EIA-644-A LVDS Standard

Available in Low Profile 16 Pin TSSOP Package

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## 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