
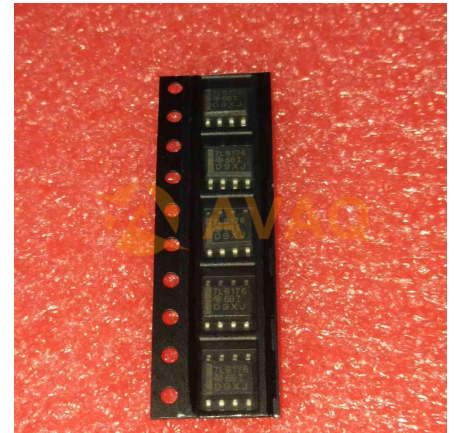


## Single Transmitter/Receiver RS-485 8-Pin SOIC T/R

<b>Manufacturer:</b>	<u>Texas Instruments, Inc</u>
<b>Package/Case:</b>	SOP8
<b>Product Type:</b>	Drivers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

## General Description

These transceivers are suitable for ANSI Standard TIA/EIA 485 (RS-485) and ISO 8482 applications to the extent that they are specified in the operating conditions and characteristics section of this data sheet. Certain limits contained in TIA/EIA 485 A and ISO 8482:1987 (E) are not met or cannot be tested over the entire military temperature range.

The SN55LBC176 is characterized for operation from  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The SN65LBC176 is characterized for operation from  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ , and the SN65LBC176Q is characterized for operation from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$ . The SN75LBC176 is characterized for operation from  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ .

## Key Features

Bidirectional Transceiver

Meets or Exceeds the Requirements of ANSI Standard TIA/EIA 485 A and ISO 8482:1987(E)

High-Speed Low-Power LinBiCMOS Circuitry

Designed for High-Speed Operation in Both Serial and Parallel Applications

Low Skew

Designed for Multipoint Transmission on Long Bus Lines in Noisy Environments

Very Low Disabled Supply Current . . . 200  $\mu$ A Maximum

Wide Positive and Negative Input/Output Bus Voltage Ranges

Thermal-Shutdown Protection

Driver Positive-and Negative-Current Limiting

Open-Circuit Failsafe Receiver Design

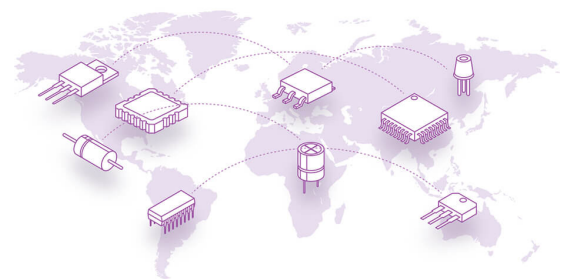
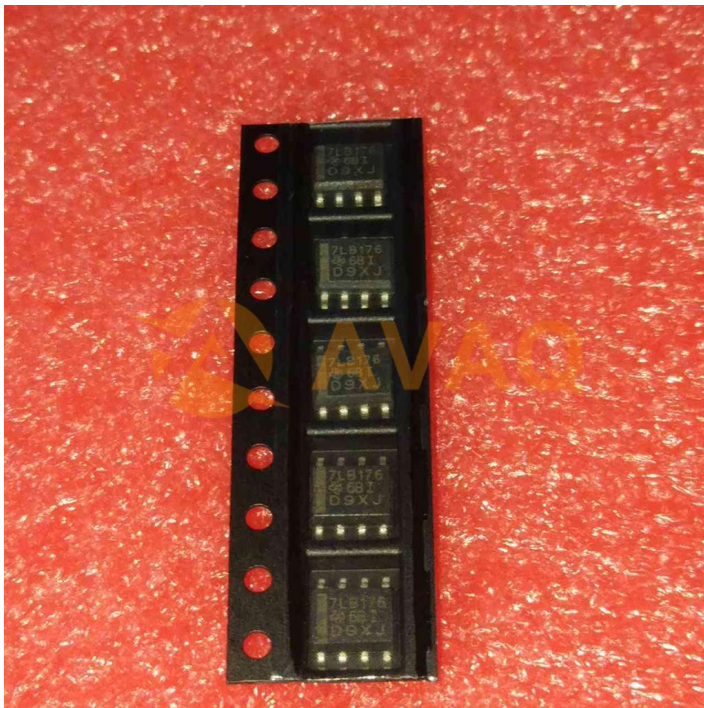
Receiver Input Sensitivity . . .  $\pm$ 200 mV Max

Receiver Input Hysteresis . . . 50 mV Typ

Operates From a Single 5-V Supply

Glitch-Free Power-Up and Power-Down Protection

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



## Recommended For You

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**SN65LV1224BDBR**

Texas Instruments, Inc  
SSOP28

**SN75173N**

Texas Instruments, Inc  
DIP

**SN65LBC179D**

Texas Instruments, Inc  
SOP8

**SN75176AD**

Texas Instruments, Inc  
SOP-8

**SN65LVDS3486D**

Texas Instruments, Inc  
SOP-16

**SN65HVD33MDREP**

Texas Instruments, Inc  
SOP-14

**SN65LVDS3487D**

Texas Instruments, Inc  
SOP16

**SN65LBC175AD**

Texas Instruments, Inc  
SOP-16

**SN65LVDS31PW**

Texas Instruments, Inc  
TSSOP-16

**SN75176AP**

Texas Instruments, Inc  
DIP8

**SN65LVDS33D**

Texas Instruments, Inc  
SOP-16

**SN65LVDS32D**

Texas Instruments, Inc  
SOP-16

**SN65LVDS31D**

Texas Instruments, Inc  
SOP

**SN75175D**

Texas Instruments, Inc  
SOP

**SN75175N**

Texas Instruments, Inc  
DIP