

## Single Transmitter/Receiver RS-485 8-Pin SOIC Tube



Images are for reference only

[Inquiry](#)

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

**Package/Case:** SOP-8

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

## General Description

The SN75LBC184 and SN65LBC184 devices are differential data line transceivers in the trade-standard footprint of the SN75176 with built-in protection against high-energy noise transients. This feature provides a substantial increase in reliability for better immunity to noise transients coupled to the data cable over most existing devices. Use of these circuits provides a reliable low-cost direct-coupled (with no isolation transformer) data line interface without requiring any external components.

The SN75LBC184 and SN65LBC184 can withstand overvoltage transients of 400-W peak (typical). The conventional combination wave called out in IEC 61000-4-5 simulates the overvoltage transient and models a unidirectional surge caused by overvoltages from switching and secondary lightning transients.

## Key Features

Integrated Transient Voltage Suppression

ESD Protection for Bus Terminals Exceeds:  $\pm 30$  kV IEC 61000-4-2, Contact Discharge  $\pm 15$  kV IEC 61000-4-2, Air-Gap Discharge  $\pm 15$  kV EIA/JEDEC Human Body Model

Circuit Damage Protection of 400-W Peak (Typical) Per IEC 61000-4-5

Controlled Driver Output-Voltage Slew Rates Allow Longer Cable Stub Lengths

250-kbps in Electrically Noisy Environments

Open-Circuit Fail-Safe Receiver Design

1/4 Unit Load Allows for 128 Devices Connected on Bus

Thermal Shutdown Protection

Power-Up and Power-Down Glitch Protection

Each Transceiver Meets or Exceeds the Requirements of TIA/EIA-485 (RS-485) and ISO/IEC 8482:1993(E) Standards

Low Disabled Supply Current 300  $\mu$ A Maximum

Pin Compatible With SN75176

## 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