
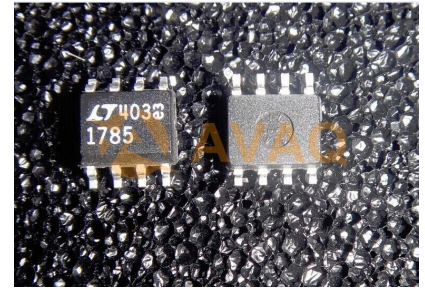


## Single Transmitter/Receiver RS-422/RS-485 8-Pin SOIC N Tube

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<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

The LT1785/LT1791 are half-duplex and full-duplex differential bus transceivers for RS485 and RS422 applications which feature on-chip protection from overvoltage faults on the data transmission lines. Receiver input and driver output pins can withstand voltage faults up to  $\pm 60V$  with respect to ground with no damage to the device. Faults may occur while the transceiver is active, shut down or powered off.

Data rates to 250kbaud on networks of up to 128 nodes are supported. Controlled slew rates on the driver outputs control EMI emissions and improve data transmission integrity on improperly terminated lines. Drivers are specified to operate with inexpensive cables as low as  $72\Omega$  characteristic impedance.

The LT1785A/LT1791A devices have “fail-safe” receiver inputs to guarantee a receiver output high for shorted, open or inactive data lines. On-chip ESD protection eliminates need for external protection devices.

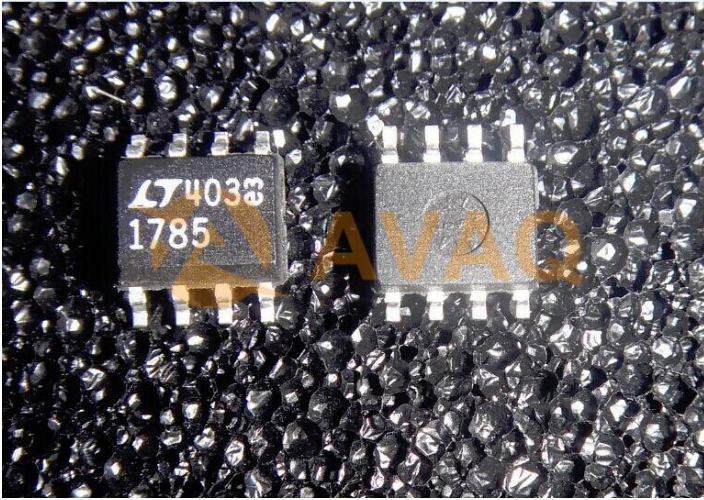
The LT1785/LT1785A are available in 8-lead DIP and SO packages and the LT1791/LT1791A in 14-lead DIP and SO packages.

### Key Features

- Protected from overvoltage line faults to  $\pm 60V$
- Pin compatible with LTC485 and LTC491
- High input impedance supports up to 128 nodes
- No damage or latch-up to ESD
- Controlled slew rates for EMI emissions control
- Guaranteed high receiver output state for floating, shorted or inactive inputs
- Outputs assume a high impedance when off or powered down
- Drives low impedance cables
- Short-circuit protection on all outputs
- Thermal shutdown protection
- Guaranteed operation to  $125^{\circ}C$

### Application

Industrial, Communications & Networking, HVAC



## Recommended For You

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### **LTM2884IY#PBF**

Analog Devices, Inc

BGA44

### **LTM2886CY-5I#PBF**

Analog Devices, Inc

BGA

### **LTC1344AIG**

Analog Devices, Inc

SSOP24

### **LTC1955EUH**

Analog Devices, Inc

QFN

### **LTC4307IDD-1#PBF**

Analog Devices, Inc

DFN-8

### **LTM2894IY#PBF**

Analog Devices, Inc

BGA

### **LTC4301LCMS8#PBF**

Analog Devices, Inc

MSOP-8

### **LT1137ACSW#PBF**

Analog Devices, Inc

SOP28

### **LTM2884CY#PBF**

Analog Devices, Inc

BGA44

### **LTC490CN8#PBF**

Analog Devices, Inc

DIP8

### **LTM2882CY-3#PBF**

Analog Devices, Inc

BGA

### **LTC4311ISC6#TRMPBF**

Analog Devices, Inc

AN

### **LTC4300A-1CMS8#PBF**

Analog Devices, Inc

MSOP8

### **LTC1334CSW#PBF**

Analog Devices, Inc

SOP-28

### **LTM2884HY#PBF**

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BGA-44