
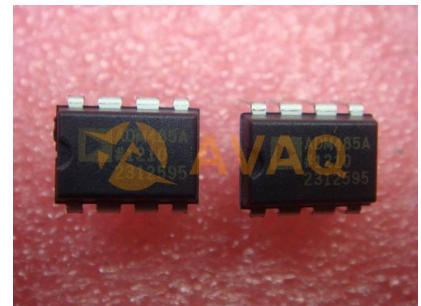


## Single Transmitter/Receiver RS-422/RS-485 8-Pin PDIP N Tube

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	DIP
<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 ADM485 operates from a single +5 V power supply. Excessive power dissipation caused by bus contention or by output shorting is prevented by a thermal shutdown circuit. This feature forces the driver output into a high impedance state if during fault conditions a significant temperature increase is detected in the internal driver circuitry.

Up to 32 transceivers may be connected simultaneously on a bus, but only one driver should be enabled at any time. It is important, therefore, that the remaining disabled drivers do not load the bus. To ensure this, the ADM485 driver features high output impedance when disabled and also when powered down.

This minimizes the loading effect when the transceiver is not being utilized. The high impedance driver output is maintained over the entire common-mode voltage range from -7V to +12 V.

The receiver contains a fail safe feature which results in a logic high output state if the inputs are unconnected (floating).

The ADM485 is fabricated on BiCMOS, an advanced mixed technology process combining low power CMOS with fast switching bipolar technology. All inputs and outputs contain protection against ESD; all driver outputs feature high source and sink current capability. An epitaxial layer is used to guard against latch-up.

The ADM485 features extremely fast switching speeds. Minimal driver propagation delays permit transmission at data rates up to 5 Mbits/s while low skew minimizes EMI interference.

The part is fully specified over the commercial and industrial temperature range and is available in an 8-pin DIL/SOIC packages.

## Key Features

Meets EIA RS-485 Standard

5 Mbps Data Rate

Single 5 V Supply

High Speed, Low Power BiCMOS

Thermal Shutdown Protection

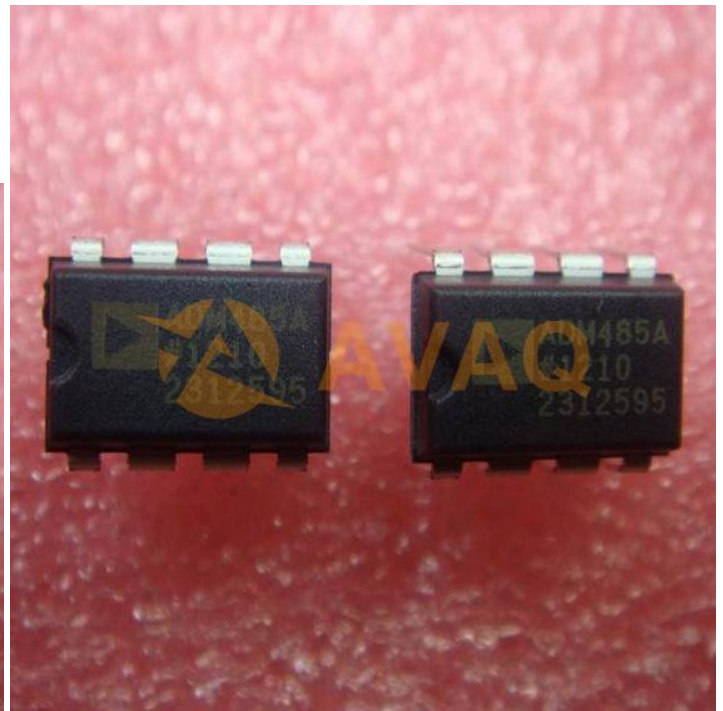
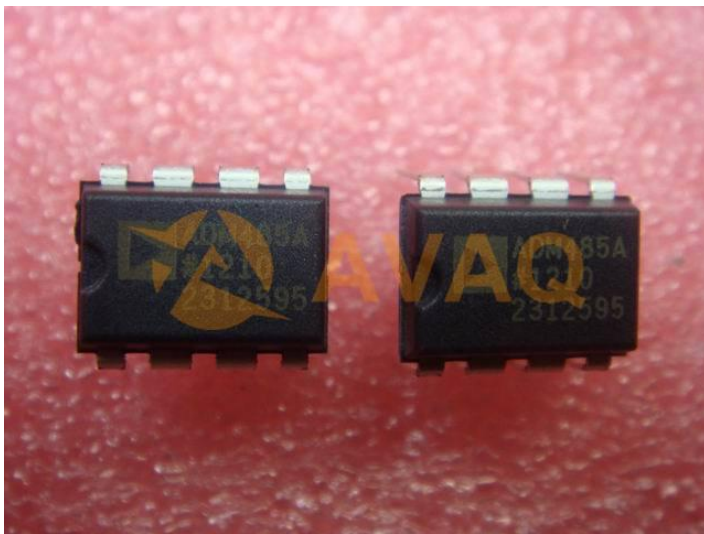
Short-Circuit Protection

Driver Propagation Delay: 10 ns

Receiver Propagation Delay: 15 ns

High Z Outputs with Power Off

Superior Upgrade for LTC485



## Recommended For You

### ADMB490EARZ

Analog Devices, Inc

SOP-8

### ADuM3160BRWZ-RL

Analog Devices, Inc

SOP16

### ADMB232EARUZ

Analog Devices, Inc

TSSOP-16

### ADuM5211ARSZ

Analog Devices, Inc

SSOP20

### ADuM1201BRZ-RL7

Analog Devices, Inc

SOP8

### ADV7623BSTZ

Analog Devices, Inc

LQFP144

**ADuMI410BRWZ**

Analog Devices, Inc

SOP16

**AD698APZ**

Analog Devices, Inc

PLCC28

**ADMB251EARWZ**

Analog Devices, Inc

SOP20

**ADuM6400ARWZ**

Analog Devices, Inc

SOP16

**ADuMI281BRZ**

Analog Devices, Inc

SOP8

**ADUM142E0BRZ**

Analog Devices, Inc

SOP-16

**ADuMI412BRWZ**

Analog Devices, Inc

SOP16

**ADV7622BSTZ**

Analog Devices, Inc

TQFP144

**ADAU1328BSTZ**

Analog Devices, Inc

QFP