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## SP3491

3.3V Low Power Full Duplex RS-485 Transceivers with 10Mbps Data Rate

### Features

- Full Duplex RS-485 and RS-422 Transceivers
- Operates from a single +3.3V supply
- Interoperable with +5.0V logic
- Driver/Receiver Tri-state Enable Lines
- -7V to +12V Common-Mode Input Voltage Range
- +200mV Receiver Input Sensitivity
- Allows up to 32 transceivers on the serial bus
- Compatibility with LTC491 and SN75180

[show obsolete parts](#)

Part Number	Pkg Code	RoHS	Min Temp. (°C)	Max Temp. (°C)	Status	Buy Now	Order Samples
SP3491CN-L	<a href="#">NSOIC14</a>		0	70	Active		
SP3491CN-L/TR	<a href="#">NSOIC14</a>		0	70	Active		
SP3491EN-L	<a href="#">NSOIC14</a>		-40	85	Active		
SP3491EN-L/TR	<a href="#">NSOIC14</a>		-40	85	Active		

### Part Status Legend

**Active** - the part is released for sale, standard product.**EOL (End of Life)** - the part is no longer being manufactured, there may or may not be inventory still in stock.**CF (Contact Factory)** - the part is still active but customers should check with the factory for availability. Longer lead-times may apply.**PRE (Pre-introduction)** - the part has not been introduced or the part number is an early version available for sample only.**OBS (Obsolete)** - the part is no longer being manufactured and may not be ordered.**NRND (Not Recommended for New Designs)** - the part is not recommended for new designs.

### Specifications

Vcc (V)	3.3
No. of Tx	1
No. of Rx	1
Duplex	Full
Data Rate (kbps)	10000
ESD (KV)	2
Typ. Shutdown ICC (µA)	10
Rx Fail-Safe Open	Yes
Rx Fail-Safe Short	No
Shutdown	Yes
Multi-Drop Nodes	32

### Documents

[Block Diagram](#)

#### • Datasheets

[Datasheet](#)[Version 1.0.1](#)[September 2010](#)[747.74 KB](#)

#### • Application Notes

[AN1-13, RS-485 and RS-422](#)[Physical Topologies](#)[Version D](#)[December 2006](#)[183.19 KB](#)[AN-207, Advantages of Enhanced](#)[Receiver Failsafe Features](#)[Version 1.0.0](#)[June 2010](#)[171.62 KB](#)

#### • Process Qualification Report

[EPISIL 5um CMOS Process](#)[Qualification Report](#)[Version 1.0.0](#)[July 2006](#)[1.45 MB](#)

#### • Transfer Characterization Report

[SP3485 Family Episil](#)[Characterization Report](#)[Version 1.0.0](#)[August 2006](#)[2.40 MB](#)

#### • Product FAQs

[SP3491 FAQ](#)[Version 1.0.0](#)[October 2006](#)[179.78 KB](#)