

Part No. ▼ SP232EEN

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SP232EEN Datasheet (PDF) - Sipex Corporation

Part No.	SP232EEN
Description	<a href="#">High-Performance RS-232 Line Drivers/Receivers</a>
File Size	124.04 Kbytes
Html View	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">6</a> <a href="#">7</a> <a href="#">8</a> <a href="#">9</a> <a href="#">More</a>
Maker	SIPEX [Sipex Corporation]
Homepage	http://www.sipex.com
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SP202E/232E/233E/310E/312E

High-Performance RS-232  
Line Drivers/Receivers

■ Operates from Single +5V Power Supply

■ Meets All RS-232D and ITU V.28 Specifications

■ Operates with 0.1μF to 10μF Capacitors

■ High Data Rate – 120Kbps Under Load

■ Low Power Shutdown ≤1μA (Typical)

■ 3-State TTL/CMOS Receiver Outputs

■ Low Power CMOS – 3mA Operation

■ Improved ESD Specifications:

±15kV Human Body Model

±15kV IEC1000-4-2 Air Discharge

±8kV IEC1000-4-2 Contact Discharge

C<sub>1</sub>+

1

V<sub>+</sub>

2

C<sub>1</sub>-

3

C<sub>2</sub>+

4

C<sub>2</sub>-

5

V<sub>-</sub>

6

T<sub>2</sub>OUT

7

R<sub>2</sub>IN

8

SP202E

16

V<sub>CC</sub>

15

GND

14

T<sub>1</sub>OUT

13

R<sub>1</sub>IN

12

R<sub>1</sub>OUT

11

T<sub>1</sub>IN

10

T<sub>2</sub>IN

9

R<sub>2</sub>OUT

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DESCRIPTION

The **SP202E/232E/233E/310E/312E** devices are a family of line driver and receiver pairs that meet the specifications of RS-232 and V.28 serial protocols with enhanced ESD performance. The ESD tolerance has been improved on these devices to over ±15KV for both Human Body Model and IEC1000-4-2 Air Discharge Method. These devices are pin-to-pin compatible with **Sipex's** SP232A/233A/310A/312A devices as well as popular industry standards. As with the initial versions, the **SP202E/232E/233E/310E/312E** devices feature at least 120Kbps data rate under load, 0.1μF charge pump capacitors, and overall ruggedness for commercial applications. This family also features **Sipex's** BiCMOS design allowing low power operation without sacrificing performance. The series is available in plastic DIP and SOIC packages operating over the commercial and industrial temperature ranges.

If the datasheet does not displayed, please, [download the Adobe Reader](#) or [click to view in HTML datasheet.](#)

Related Electronics Part Number

Part Number	Components Description	Html View	Manufacturer
SN65C3232E	<a href="#">3-V TO 5.5-V TWO-CHANNEL RS-232 1-MBIT/S LINE DRIVERS/RECEIVERS WITH ±15-KV IEC ESD PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
MAX3238E	<a href="#">3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVER/RECEIVER WITH ±15-KV ESD HBM PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
SN65C3222E	<a href="#">3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVERS/RECEIVERS WITH ±15-KV ESD PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
MAX3243_06	<a href="#">3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVER/RECEIVER WITH +-15-KV ESD HBM PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
SN65C3238E	<a href="#">3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVERS/RECEIVERS WITH ±15-KV ESD HBM PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
MAX3232E_07	<a href="#">3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVER/RECEIVER WITH ±15-KV IEC ESD PROTECTION</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Texas Instruments
SP232A	<a href="#">Enhanced RS-232 Line Drivers/Receivers</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Sipex Corporation
ADM2023E	<a href="#">EMI/EMC-Compliant +-15 kV ESD-Protected RS-232 Line Drivers/Receivers</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Analog Devices
ADM3232E	<a href="#">+-15 kV ESD Protected 3.3 V RS-232 Line Driver/Receiver</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">3</a> <a href="#">4</a> <a href="#">5</a> <a href="#">More</a>	Analog Devices

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