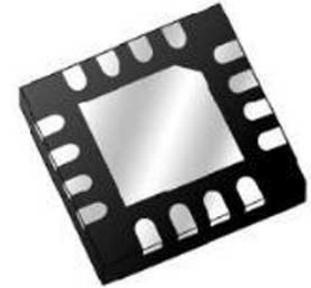


QFN Packaged, 【15kV ESD Protected, +2.7V to +5.5V, 150nA, 250kBps, RS-232 Transmitters/Receivers

|               |   |
|---------------|---|
| Manufacturers | <a href="#">Renesas Technology Corp</a> |
| Package/Case  | QFN-16                                  |
| Product Type  | Interface ICs                           |
| RoHS          | Rohs                                    |
| Lifecycle     |   |



Images are for reference only

Please submit RFQ for ISL4221EIRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ISL3232E, ISL4221E, and ISL4223E devices are 2.7V to 5.5V powered RS-232 transmitters/receivers that meet EIA/TIA-232 and V.28/V.24 specifications, even at >

The ISL4221E is a 1 driver, 1 receiver device and the ISL3232E and ISL4223E are 2 driver, 2 receiver devices that, coupled with the 5mmx5mm QFN package, provide the industry's smallest, lowest power serial port suitable for PDAs, and hand-held applications. The 5mmx5mm QFN requires 40% less board area than a 20 Ld TSSOP, and is nearly 20% thinner.

The ISL4221E and ISL4223E versions feature an automatic powerdown function that powers down the on-chip power supply and driver circuits. Automatic powerdown occurs when an attached peripheral device is shut off or the RS-232 cable is removed, and conserves system power automatically without changes to the hardware or operating system. The ISL4221E and ISL4223E power back up automatically when a valid RS-232 voltage is applied to any receiver input.

## Features

Available in near chip scale QFN (5mmx5mm) package, which is 40% smaller than a 20 Ld TSSOP

ESD protection for RS-232 I/O pins to  $\pm 15\text{kV}$  (IEC61000)

Meets EIA/TIA-232 and V.28/V.24 specifications at 3V

RS-232 compatible with>

On-chip voltage converters require only four external 0.1 $\mu\text{F}$  capacitors

Manual and automatic powerdown features (except ISL3232E)

Receiver hysteresis for improved noise immunity

Assured minimum data rate: 250kbps

Wide power supply range: single +2.7V to +5.5V

Low supply current in powerdown state: 150nA

Pb-free (RoHS compliant)

## Related Products



### [ISL83491IBZ](#)

Renesas Technology Corp  
SOIC-14



### [ISL3170EIUZ](#)

Renesas Technology Corp  
MSOP-10



### [ISL99227FRZ-T](#)

Renesas Technology Corp  
32-PowerWFQFN



### [ISL83078EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [ISL83072EIBZA](#)

Renesas Technology Corp  
SOIC-8



### [ISL81487EIBZ](#)

Renesas Technology Corp  
SOP-8



### [IS82C55AZ](#)

Renesas Technology Corp  
PLCC-44



### [ISL83387EIVZ](#)

Renesas Technology Corp  
TSSOP-24