

+,-15kV ESD Protected, +3V to +5.5V, 1Microamp, 250kbps, RS-232 Transmitters/Receivers

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	TSSOP-20
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ICL3223EIVZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ICL3221E, ICL3222E, ICL3223E, ICL3232E, ICL3241E, and ICL3243E are 3.0V to 5.5V powered RS-232 transmitters/receivers that meet EIA/TIA-232 and V.28/V.24 specifications, even at >

The ICL324XE are 3-driver, 5-receiver devices that provide a complete serial port suitable for laptop or notebook computers. Both devices also include noninverting always-active receivers for “wake-up” capability.

The ICL3221E, ICL3223E, and ICL3243E feature an automatic power-down function that powers down the on-chip power supply and driver circuits. Power-down occurs when an attached peripheral device is shut off or the RS-232 cable is removed, which conserves system power automatically without changes to the hardware or operating system. These devices power up again when a valid RS-232 voltage is applied to any receiver input.

## Features

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

Drop-in replacements for the MAX3221E, MAX3222E, MAX3223E, MAX3232E, MAX3241E, MAX3243E, and SP3243E

The ICL3221E is a low-power, pin-compatible upgrade for the 5V MAX221E

The ICL3222E is a low-power, pin-compatible upgrade for the 5V MAX242E and SP312E

The ICL3232E is a low-power upgrade for the HIN232E, ICL232, and pin-compatible competitor devices

RS-232 compatible with

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

Latch-up free

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

Manual and automatic power-down features

Ensured mouse driveability (ICL324xE only)

Receiver hysteresis for improved noise immunity

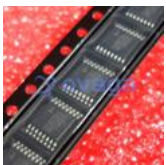
Ensured minimum data rate : 250kbps

Wide power supply range : single +3V to +5.5V

Low supply current in power-down state :  $1\mu\text{A}$

Pb-free (RoHS compliant)

## Related Products



### [ICL3221EIVZ](#)

Renesas Technology Corp  
TSSOP-16



### [ICL3243EIVZ](#)

Renesas Technology Corp  
TSSOP-28



### [ICL3232ECBNZ-T](#)

Renesas Technology Corp  
SOIC-16



### [ICL3241EIAZ](#)

Renesas Technology Corp  
SSOP-28



### [ICL3241ECAZ](#)

Renesas Technology Corp  
SSOP-28



### [ICL3232EIBNZ-T](#)

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SOIC-16



[ICL3232ECBZ](#)

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SOIC-16



[ICL3223IAZ](#)

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