


Dual Transmitter/Receiver RS-232 16-Pin TSSOP Tube

Manufacturer:	Renesas Technology Corp
Package/Case:	TSSOP16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ICL3221, ICL3222, ICL3223, ICL3232, ICL3241, ICL3243 (ISL32xx) devices are 3.0V to 5.5V powered RS-232 transmitters/receivers that meet EIA/TIA-232 and V.28/V.24 specifications, even at VCC = 3.0V. Targeted applications are PDAs, notebook, and laptop computers where the low operational power consumption and even lower standby power consumption are critical. Efficient on-chip charge pumps, coupled with manual and automatic power-down functions (except for the ICL3232), reduce the standby supply current to a 1µA trickle. Small footprint packaging, and the use of small, low value capacitors ensure board space savings as well. Data rates greater than 250kbps are ensured at worst case load conditions. This family is fully compatible with 3.3V only systems, mixed 3.3V and 5.0V systems, and 5.0V only systems.

The ICL324x 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 ICL3221, ICL3223 and ICL3243 feature an automatic powerdown 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, conserving 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.

Key Features

RoHS Compliant

15kV ESD protected (Human Body Model)

Drop-in replacements for MAX3221, MAX3222, MAX3223, MAX3232, MAX3241, MAX3243, SP3243

ICL3221 is a low-power, pin compatible upgrade for 5V MAX221

ICL3222 is a low-power, pin compatible upgrade for 5V MAX242, and SP312A

ICL3232 is a low-power upgrade for HIN232/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 μ F capacitors

Manual and automatic powerdown features (except ICL3232)

Assured mouse driveability (ICL324x only)

Receiver hysteresis for improved noise immunity

Assured minimum data rate : 250kbps

Assured minimum slew rate : 6V/ms

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

Low supply current in powerdown state :1 μ A



Recommended For You

ICL3222EIAZ

Renesas Technology Corp
SSOP20

ICL3225ECAZ-T

Renesas Technology Corp
SSOP20

ICL3222EIAZ-T

Renesas Technology Corp
SSOP20

ICL3222ECAZ-T

Renesas Technology Corp
SSOP20

CP82C37A-5

Renesas Technology Corp
DIP

CA91C142D-33CE

Renesas Technology Corp
BGA

CA91C142D-33CEV

Renesas Technology Corp
BGA

HC55185CIM

Renesas Technology Corp
PLCC28

HIP9011AB

Renesas Technology Corp
SOP20

ISL3174EIUZ

Renesas Technology Corp
MSOP8

82V2044EPFG

Renesas Technology Corp
TQFP-128

CP82C59A-12

Renesas Technology Corp
DIP

HC5515CM

Renesas Technology Corp

PLCC28

HC55185DIM

Renesas Technology Corp

PLCC

IP82C52

Renesas Technology Corp

DIP