

HIN232ECPZ

Data Sheet

Transceiver RS232, 2 Drivers, CMOS, ± 15kV ESD Protected, 4.5V-5.5V supply, DIP-16

Manufacturers Renesas Technology Corp

Package/Case PDIP-16

Product Type Interface ICs

RoHS Rohs

Lifecycle



Images are for reference only

Please submit RFQ for HIN232ECPZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The HIN202E, HIN206E, HIN207E, HIN208E, HIN211E, HIN213E, HIN232E family of RS-232 transmitters/receivers interface circuits meet all EIA high-speed RS-232E and V.28 specifications, and are particularly suited for those applications where $\pm 12V$ is not available. A redesigned transmitter circuit improves data rate and slew rate, which makes this suitable for ISDN and high speed modems. The transmitter outputs and receiver inputs are protected to $\pm 15 \text{kV}$ ESD (Electrostatic Discharge). They require a single $\pm 5V$ power supply and feature onboard charge pump voltage converters which generate $\pm 10V$ and $\pm 10V$ supplies from the $\pm 5V$ supply. The family of devices offers a wide variety of highspeed RS-232 transmitter/receiver combinations to accommodate various applications (see Selection Table). The HIN206E, HIN211E and HIN213E feature a low power shutdown mode to conserve energy in battery powered applications. In addition, the HIN213E provides two active receivers in shutdown mode allowing for easy "wakeup" capability. The drivers feature true TTL/CMOS input compatibility, slew rate-limited output, and $\pm 300\Omega$ power-off source impedance. The receivers can handle up to $\pm 30V$ input, and have a $\pm 3k\Omega$ to $\pm 3k\Omega$ input impedance. The receivers also feature hysteresis to greatly improve noise rejection.

Features

Pb-Free Plus Anneal Available (RoHS Compliant)

High-Speed ISDN Compatible 230kbits/s

ESD Protection for RS-232 I/O Pins to ± 15 kV (IEC61000)

Meets All RS-232E and V.28 Specifications

Requires Only 0.1 µF or Greater External Capacitors

Two Receivers Active in Shutdown Mode (HIN213E)

Requires Only Single +5V Power Supply

Onboard Voltage Doubler/Inverter

Low Power Consumption (Typ) 5mA

Low Power Shutdown Function (Typ) 1 µA

Three-State TTL/CMOS Receiver Outputs

Multiple Drivers

 $\pm 10 V$ Output Swing for +5 V Input

 300Ω Power-Off Source Impedance

Output Current Limiting

TTL/CMOS Compatible

Multiple Receivers

±30V Input Voltage Range

 $3k\Omega$ to $7k\Omega$ Input Impedance

0.5V Hysteresis to Improve Noise Rejection

Related Products



HIN202EIBNZ

Renesas Technology Corp SOIC-16



HI1-5051-2

Renesas Technology Corp CDIP-16



HI1-0508-2

Renesas Technology Corp CDIP-16



HI1-5042-2

Renesas Technology Corp CDIP-16



HIN213EIAZ-T

Renesas Technology Corp SSOP-28



HI1-0546-2

Renesas Technology Corp CDIP-28



HIN213ECAZ-T

Renesas Technology Corp SSOP-28



HI1-0201-2

Renesas Technology Corp CDIP-16