HIN202EIBNZ-T

Data Sheet

Line Transmitter/Receiver 2TR 2TX 2RX 16-Pin SOIC N T/R

Manufacturers	Renesas Technology Corp
Package/Case	SOIC-16
Product Type	Interface ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for HIN202EIBNZ-T or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The HIN202E, HIN206E, HIN207E, HIN208E, HIN211E, HIN213E, HIN232E family of RS-232 transmitters/receivers interface circuits meet all ElA high-speed RS-232E and V.28 specifications, and are particularly suited for those applications where ±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 ±15kV ESD (Electrostatic Discharge). They require a single +5V power supply and feature onboard charge pump voltage converters which generate +10V and -10V supplies from the 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 300Ω power-off source impedance. The receivers can handle up to ±30V input, and have a 3kΩ to 7kΩ 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 ±15kV (IEC61000)

Meets All RS-232E and V.28 Specifications

Requires Only 0.1µF 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) 1µA

Three-State TTL/CMOS Receiver Outputs

Multiple Drivers

±10V Output Swing for +5V Input

300Ω Power-Off Source Impedance

Output Current Limiting

TTL/CMOS Compatible

Multiple Receivers

±30V Input Voltage Range

3kΩ to 7kΩ Input Impedance

0.5V Hysteresis to Improve Noise Rejection

Related Products

HIN202EIBNZ

Renesas Technology Corp

SOIC-16

HI1-0508-2

Renesas Technology Corp

CDIP-16

HI1-5051-2

Renesas Technology Corp

CDIP-16

HI1-5042-2

Renesas Technology Corp

CDIP-16

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Renesas Technology Corp

SSOP-28

[HIN213ECAZ-T]

Renesas Technology Corp

SSOP-28

[HI1-0546-2]

Renesas Technology Corp

CDIP-28

[HI1-0201-2]

Renesas Technology Corp

CDIP-16