

ISL8483EIBZ

Data Sheet

INTERSIL ISL8483EIBZ RS422 / RS485 Transceiver IC, 1 Driver, 4.5V to 5.5V, SOIC-8

Manufacturers Renesas Technology Corp

Package/Case SOP8

Product Type Interface ICs

RoHS Rohs

Lifecycle



Images are for reference only

Please submit RFQ for ISL8483EIBZ or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The ISL8483E and ISL8485E are ESD protected, BiCMOS 5V powered, single transceivers that meet both the RS-485 and RS-422 standards for balanced communication. Each driver output/receiver input is protected against ± 15 kV ESD strikes without latch-up. Unlike competitive devices, this Renesas family is specified for 10% tolerance supplies (4.5V to 5.5V).

The ISL8483E uses slew rate limited drivers that reduce EMI and minimize reflections from improperly terminated transmission lines or unterminated stubs in multidrop and multipoint applications.

Data rates up to 10Mbps are achievable by using the ISL8485E, which features higher slew rates.

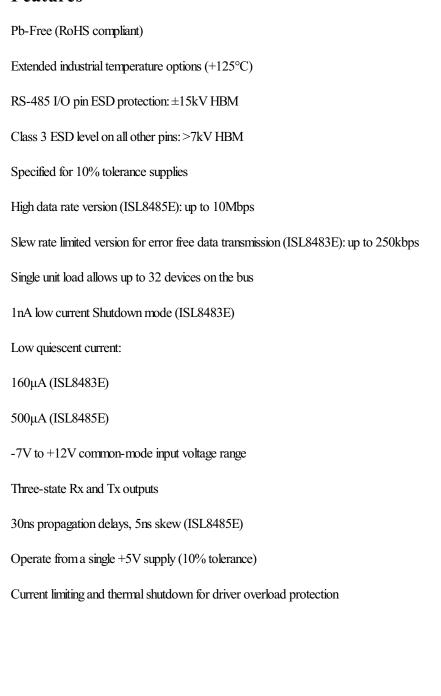
Both devices present a "single unit load" to the RS-485 bus, which allows up to 32 transceivers on the network.

Receiver (Rx) inputs feature a "fail-safe if open" design, which ensures a logic high Rx output if Rx inputs are floating.

Driver (Tx) outputs are short-circuit protected even for voltages exceeding the power supply voltage. Additionally, on-chip thermal shutdown circuitry disables the Tx outputs to prevent damage if power dissipation becomes excessive.

These half duplex configurations multiplex the Rx inputs and Tx outputs to allow transceivers with Rx and Tx disable functions in 8 Ld packages.

Features





Related Products



ISL83491IBZ

Renesas Technology Corp SOIC-14



 $\underline{ISL99227FRZ-T}$

Renesas Technology Corp 32-PowerWFQFN



ISL83072EIBZA

Renesas Technology Corp SOIC-8



IS82C55AZ

Renesas Technology Corp PLCC-44



ISL3170EIUZ

Renesas Technology Corp MSOP-10



ISL83078EIBZA

Renesas Technology Corp SOIC-8



ISL81487EIBZ

Renesas Technology Corp SOP-8



ISL83387EIVZ

Renesas Technology Corp TSSOP-24