

60V OVP, 20V CMR, -40+85, 5V RS-485 1/2 DUPL 1MBPS TRANS, 8L HT SUSA  
 CODE:8542390000

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	SOP-8
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL32455EIBZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ISL3245xE are 3.3V to 5V powered, fault protected, extended Common-Mode Range (CMR) differential transceivers for balanced communication. The RS-485 bus pins (driver outputs and receiver inputs) are protected against overvoltages up to  $\pm 60V$ , and against  $\pm 15kV$  ESD strikes. These transceivers operate in environments with common-mode voltages up to  $\pm 20V$  (exceeds the RS-485 requirement), making this RS-485 family one of the most robust on the market.

The transmitters are RS-485 compliant with  $VCC \geq 4.5V$  and deliver a 1.1V differential output voltage into the RS-485 specified  $54\Omega$  load even with

The ISL32457E and ISL32459E include a cable invert function that reverses the polarity of the Rx and Tx bus pins in case the cable is misconnected during installation.

## Features

Fault protected RS-485 bus pins: up to  $\pm 60V$

Extended common-mode range:  $\pm 20V$  larger than required for RS-485

$\pm 15kV$  HBM ESD protection on RS-485 bus pins

Wide supply range: 3V to 5.5V

Cable invert pin (ISL32457E and ISL32459E only) corrects for reversed cable connections while maintaining Rx full fail-safe functionality

1/4 unit load for up to 128 devices on the bus

High transient overvoltage tolerance:  $\pm 80V$

Full fail-safe (open, short, terminated) RS-485 receivers

Choice of RS-485 data rates: up to 20Mbps

Low quiescent supply current: 2.1mA

## Related Products



### [ISL83491IBZ](#)

Renesas Technology Corp  
SOIC-14



### [ISL3170EIUZ](#)

Renesas Technology Corp  
MSOP-10



### [ISL99227FRZ-T](#)

Renesas Technology Corp  
32-PowerWFQFN



### [ISL83078EIBZA](#)

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### [ISL83072EIBZA](#)

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### [ISL81487EIBZ](#)

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### [IS82C55AZ](#)

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### [ISL83387EIVZ](#)

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