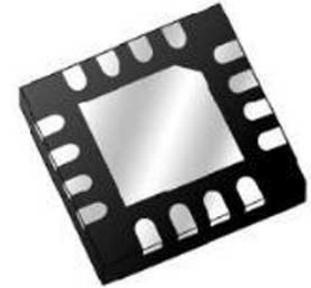


4Channel And 6Channel High Speed, Auto-direction Sensing Logic Level Translators;
TQFN16, uTQFN16; Temp Range: -40° to 85°C

Manufacturers	Renesas Technology Corp
Package/Case	QFN16
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL3034EIRTZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL3034E is a 6-channel bidirectional, auto-direction sensing, level translator that provides the required level shifting in multi-voltage systems at data transfer rates up to 100Mbps. The auto-direction sensing feature makes the ISL3034E ideally suited for generic six channel level translation especially if bit-by-bit direction control is desired. The VCC and VL supply voltages set the logic levels on either side of the device. Logic signals on the IC's VL side appear as higher voltage logic signals on the IC's VCC side. Logic signals on the IC's VCC side appear as higher voltage logic signals on the IC's VL side. The ISL3034E operates at full speed with external input drivers that source as little as 4mA output current. Each I/O channel is pulled up to VCC or VL by an internal 30µA current source, allowing the ISL3034E to be driven by either push-pull or open-drain drivers. Drive the ISL3034E's enable (EN) input low to place the IC into a low-power shutdown mode with all I/O lines tri-stated. The device features an automatic shutdown mode that places the part in the same shutdown state when VCC is less than VL. The ISL3034E operates with VCC voltages from +2.2V to +3.6V and VL voltages from +1.35V to +3.2V, making it ideal for data transfer between low-voltage microcontrollers or ASICs and higher voltage components.

Features

Best-In-Class ESD protection: $\pm 15\text{kV}$ IEC61000-4-2 ESD protection on all input, output, and I/O lines

100Mbps guaranteed data rate

Six bidirectional channels

Auto-direction sensing eliminates direction control logic pins

Enable input for logic control of low power SHDN Mode

Compatible with 4mA input drivers or larger

$+1.35\text{V} \leq V_L \leq +3.2\text{V}$ and $+2.2\text{V} \leq V_{CC} \leq +3.6\text{V}$ supply voltage range

Pb-Free (RoHS compliant)

16Ld μ TQFN (2.6mmx1.8mm) and 16 Ld TQFN (3mmx3mm) packages

Related Products



[ISL83491IBZ](#)

Renesas Technology Corp
SOIC-14



[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