

Voltage Level Translator, Bidirectional, 8 Input, 6 ns, 60 Mbps, 1.15 V to 5.5 V, TSSOP-20

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-20
Product Type	Logic - Translators
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADG3308BRUZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADG3308 is a bidirectional level translator containing eight bidirectional channels. The ADG3308 can be used in multivoltage digital system applications, such as a data transfer between a low voltage DSP controller and a higher voltage device. The internal architecture allows the device to perform bidirectional level translation without an additional signal to set the direction in which the translation takes place.

The voltage applied to VCCA sets the logic levels on the A side of the device, and VCCY sets the levels on the Y side. For proper operation, VCCA must always be less than VCCY. The VCCA compatible logic signals applied to the A side of the device appear as VCCY compatible levels on the Y side. Similarly, VCCY compatible logic levels applied to the Y side of the device appear as VCCA compatible logic levels on the A side.

The enable pin (EN) provides three-state operation on both the A side and the Y side pins. When the EN pin is pulled low, the terminals on both sides of the device are in the high impedance state. For normal operation, EN should be driven high.

The ADG3308 is available in a compact 20-lead TSSOP and a 20-lead LFCSP. The EN pin is referred to the VCCY supply voltage.

The ADG3308 is guaranteed to operate over the 1.15 V to 5.5 V supply voltage range and the extended -40°C to $+85^{\circ}\text{C}$ temperature range.

Product Highlights

Bidirectional logic level translation.

Fully guaranteed over the 1.15 V to 5.5 V supply range.

No direction pin.

Packages: 20-lead TSSOP and 20-lead LFCSP

Applications

Low voltage ASIC level translation

Smart card readers

Cell phones and cell phone cradles

Portable communication devices

Telecommunications equipment

Network switches and routers

Storage systems (SAN/NAS)

Computing/server applications

GPS

Portable POS systems

Low cost serial interfaces

Features

Bidirectional logic level translation

Operates from 1.15 V to 5.5 V

Low quiescent current < 1 μ A

No direction pin

Application

Low voltage ASIC level translation

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Cell phones and cell phone cradles

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GPS

Portable POS systems

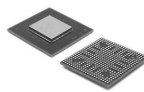
Low cost serial interfaces

Related Products



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Analog Devices, Inc
LFCSP-24



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