

Voltage Level Translator 8-CH Bidirectional 20-Pin TSSOP

Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Analog Devices, Inc](#)

Package/Case: TSSOP20

Product Type: Logic ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The ADG3300 is a bidirectional logic level translator that contains eight bidirectional channels. It can be used in multivoltage digital system applications such as data transfer between a low voltage DSP/controller and a higher voltage device. The internal architecture allows the device to perform bidirectional logic level translation without an additional signal to set the direction of the translation.

The voltage applied to VCCA sets the logic levels on the A side of the device, while 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 provides three-state operation of the Y side pins. When the enable pin (EN) is pulled low, the A1 to A8 pins are internally pulled down by 6 k Ω resistors, while the Y terminals are in the high impedance state. The EN pin is referred to VCCA supply voltage and driven high for normal operation.

The ADG3300 is available in a compact 20-lead TSSOP package, and it is guaranteed to operate over the 1.15 V to 5.5 V supply voltage range and extended -40°C to $+85^{\circ}\text{C}$ temperature range.

Applications

- Low Voltage ASIC Level Translation
- Smart Card Readers
- Cell Phones and Cell Phone Cradles
- Portable Communications Devices
- Telecommunications Equipment
- Network Switches and Routers
- Storage Systems (SAN/NAS)
- Computing/Server Applications
- GPS
- Portable POS Systems
- Low Cost Serial Interfaces

Key Features

Bidirectional level translation
Low quiescent current (<1μA)
No direction pin

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Low Cost Serial Interfaces

Recommended For You

AD632SH

Analog Devices, Inc
CAN10

AD834AQ

Analog Devices, Inc
CDIP8

AD632TH

Analog Devices, Inc
CAN

AD734AN

Analog Devices, Inc
DIP

AD734BN

Analog Devices, Inc
DIP14

AD734BNZ

Analog Devices, Inc
DIP14

AD734ANZ

Analog Devices, Inc
DIP14

AD835AR

Analog Devices, Inc
SOP8

AD734AQ

Analog Devices, Inc
DIP

AD734BQ

Analog Devices, Inc
CDIP

AD9500BP

Analog Devices, Inc
PLCC

AD632AD

Analog Devices, Inc
AUDIP

AD835ARZ

Analog Devices, Inc

SOP8

AD632ADZ

Analog Devices, Inc

14-CDIP

AD835AN

Analog Devices, Inc

DIP