

## 74AHCT125 - Quad Level-Shifter (3V to 5V) - 74AHCT125

PRODUCT ID: 1787

IN STOCK

1

ADD TO CART

1-9

10-99

100+

ADD TO WISHLIST

DESCRIPTION

TECHNICAL DETAILS



## DESCRIPTION

Level shifting chips let you connect 3V and 5V devices together safely. This chip is similar to others in the shop (such as the 74LVC125) except this one is particularly good at converting **3V logic up to 5V**. This is in demand especially when connecting some 3V devices such as the Teensy 3 to NeoPixels! Just power the 74AHCT125 with 5V, it will detect 3V logic properly. You can also use it to connect 5V logic out to 3V logic in, that's when you want to power the 74AHCT125 with 3V, it can safely read 5V logic on the input pins.

To use, apply ~5V power to the VCC pin, common ground to the ground pin, and tie the /OE (output enable) pins to ground. Data goes in on the A pins and goes out on the matching Y pins. [We have a wiring example for Raspberry Pi](#) here but also [check the datasheet for the pinouts!](#)

## TECHNICAL DETAILS

- Current Output: 8mA
- Voltage - Supply: 4.5 V ~ 5.5 V
- Operating Temperature: -40°C ~ 125°C

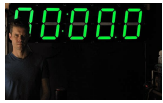
Dimensions:

Downloaded from [Arrow.com](#)  
20mm x 5mm x 1.5mm / 0.8 x 0.2 x 0.1

- Height with Pins: 7mm / 0.3"
- Weight: 0.9g



## LEARN



### [Ninja Timer: Giant 7-Segment Display](#)

Build a huge timer for an event or race. It's a digital segment display made from RGB NeoPixels!



### [Connecting a 16x32 RGB LED Matrix Panel to a Raspberry Pi](#)

How to connect a 16x32 RGB LED display to your Raspberry Pi



### [NeoPixels on Raspberry Pi](#)

How to control NeoPixel LEDs with Python on a Raspberry Pi!



### [Adafruit DotStar LEDs](#)

Imagine NeoPixels with a double shot of espresso...



### [DotStar Pi Painter](#)

Ultimate light-painting rig!

## MAY WE ALSO SUGGEST...



4-channel I2C-safe Bi-



74LVC245 - Breadboard



8-channel Bi-directional



FadeCandy - Dithering USB-



TXB0104 Bi-Directional



Teensy 3.2 + header



Teensy 3.6 without headers



Teensy 3.5 without headers

## DISTRIBUTORS [EXPAND TO SEE DISTRIBUTORS](#)

- [CONTACT](#)
- [SUPPORT](#)
- [DISTRIBUTORS](#)
- [EDUCATORS](#)
- [JOBS](#)
- [FAQ](#)
- [SHIPPING & RETURNS](#)
- [TERMS OF SERVICE](#)
- [PRIVACY & LEGAL](#)
- [ABOUT US](#)

ENGINEERED IN NYC Adafruit®

*"There are no passengers on  
spaceship earth. We are all crew" -*  
**Marshall McLuhan**



4.9 ★★★★★  
Google  
Customer Reviews