



Technological Arts Inc.

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breakout board, level-shifter, 1.2V/3V/5V, 8-channel

USD \$9.85



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[Product Info](#)

This breakout board provides eight bi-directional voltage level translation channels, ideal for such things as SPI (e.g. SD card interface, MP3 chip interface) and port interfacing. The 20-pin TSSOP level shifter chip is mounted on a carrier and fits a standard 0.6" wide DIP footprint.

- most commonly used to enable 3V peripherals to be used in 5V systems
- other voltage level translations are supported, from 1.2V
- plugs into any standard solderless breadboard
- gold-plated 0.025" square-pin terminations
- can be plugged into a standard 0.6" wide DIP socket
- end-to-end stackable
- based on T.I. TXB0108PWR:
 - 8-Bit Bidirectional Voltage-Level Translator
 - Auto Direction Sensing
 - +/-15-kV ESD Protection
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- 20 Mbps to 100 Mbps throughput, depending on voltage differential
- direct one-to-one pin-numbering

Details

This 8-bit noninverting translator uses two separate configurable power-supply rails. The A port is designed to track VCCA. VCCA accepts any supply voltage from 1.2 V to 3.6 V. The B port is designed to track VCCB. VCCB accepts any supply voltage from 1.65 V to 5.5 V. This allows for universal low-voltage bidirectional translation between any of the 1.2-V, 1.5-V, 1.8-V, 2.5-V, 3.3-V, and 5-V voltage nodes. VCCA should not exceed VCCB.

When the output-enable (OE) input is low, all outputs are placed in the high-impedance state.

Resources

- [Texas Instruments TXB0108](#)

Vendor Information