

PRODUCT DATASHEET



Logic Level Converter Generic TXB0104 Breakout

333017

The TXB0104 breakout enables safe bidirectional voltage level shifting between 1.8V and 5V for reliable communication in mixed-voltage systems.

Full product documentation, files and tutorials: solde.red/333017

CORE ATTRIBUTES

SKU **333017**

WEIGHT **5 g**

BARCODE **732388674701**

DESCRIPTION

The Logic Level Converter TXB0104 breakout safely interfaces components operating at different voltages. The TI TXB0104 IC provides four bidirectional channels, bridging low-voltage microcontrollers (1.8V - 3.3V) with higher-voltage peripherals up to 5V. Its auto-direction sensing simplifies data transfer without extra direction pins, ensuring reliable communication across mixed-voltage systems.

The TXB0104 handles push-pull and open-drain signals, supporting SPI, I2C, UART, and other digital interfaces. All channels are fully bidirectional, allowing simultaneous two-way communication. The compact breakout format makes it easy to integrate into breadboards or custom PCBs.

Ideal for connecting sensors or modules of varying voltages, this breakout ensures safe, stable, and flexible logic-level translation for any project.

TECHNICAL DETAILS

- **Max. voltage:** 30V
- **Number of channels:** 4
- **Communication protocol:** any besides I2C
- **Dimensions:** 22 × 22 mm / 0.9 × 0.9 inch

SPECIFICATIONS

INTERFACE	Digital Gpio
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes

IC PART NUMBER	TXB0104
SUPPLY VOLTAGE MIN V	1.65
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	3V3 Or 5V

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/Logic-level-converter-generic-TXB0104-breakout-hardware-design
Full Documentation	https://docs.soldered.com/txb0104/overview/
Hardware Details	https://docs.soldered.com/txb0104/hardware/
Pinout	https://cms.soldered.com/products/333017/media/333017_pinout-png-ee417c.svg

GALLERY

