

TXS0104EPWR

Voltage Level Translator 4-CH Bidirectional 14-Pin TSSOP T/R

Manufacturer:	Texas Instruments, Inc	TXS0104EPWR Image
Package/Case:	TSSOP14	Images are for reference only
Product Type:	Logic ICs	Inquiry
RoHS:	RoHS Compliant/Lead free RoHS	
Lifecycle:	Active	

General Description

This 4-bit non-inverting translator uses two separate configurable power-supply rails. The A port is designed to track VCCA. VCCA acceptsany supply voltage from 1.65 V to 3.6 V. VCCA must be less than or equal to VCCB. The B port is designed to track VCCB. VCCB accepts any supply voltage from 2.3 V to 5.5 V. This allows forlow-voltage bidirectional translation between any of the 1.8-V, 2.5-V, 3.3-V, and 5-V voltagenodes.

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

The TXS0104E is designed so that the OE input circuit is supplied by VCCA.

To ensure the high-impedance state during power up or power down, OE should be tied toGND through a pulldown resistor; the minimum value of the resistor is determined by thecurrent-sourcing capability of the driver.

Key Features

No Direction-Control Signal Needed

Max Data Rates 24 Mbps (Push Pull)

2 Mbps (Open Drain)

Available in the Texas Instruments NanoFree?Package

1.65 V to 3.6 V on A port and 2.3 V to 5.5 V on B port (VCCA≤ VCCB)

No Power-Supply Sequencing Required - VCCA or VCCB Can Be Ramped First

Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II

ESD Protection Exceeds JESD 22 A Port 2000-V Human-Body Model (A114-B)

200-V Machine Model (A115-A)

1000-V Charged-Device Model (C101)

B Port

15-kV Human-Body Model (A114-B)

200-V Machine Model (A115-A)

1000-V Charged-Device Model (C101)

IEC 61000-4-2 ESD (B Port) ±8-kV Contact Discharge

±10-kV Air-Gap Discharge

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Recommended For You

TXB0102YZPR

Texas Instruments, Inc

DSBGA-8

TXB0108PWR

Texas Instruments, Inc

TSSOP20

TXB0104QRGYRQ1

Texas Instruments, Inc

VQFN14

TXS0102DCUT

Texas Instruments, Inc

VSSOP8

TXS0104ED

Texas Instruments, Inc

SOP14

TXB0102DCUR

Texas Instruments, Inc

VSSOP8

TXS0102QDCURQ1

Texas Instruments, Inc

VSSOP8

TXB0104QRUTRQ1

Texas Instruments, Inc

UQFN12

TXS0102YZPR

Texas Instruments, Inc

DSBGA-8

TXB0101DRLR

Texas Instruments, Inc

SOT563

TXS0104EDR

Texas Instruments, Inc

SOP14

TXS0104EQPWRQ1

Texas Instruments, Inc

TSSOP14

TXS0102DCTT

Texas Instruments, Inc

SSOP8

TXB0104QPWRQ1

Texas Instruments, Inc

TSSOP14

TXB0101DBVR

Texas Instruments, Inc

SOT23