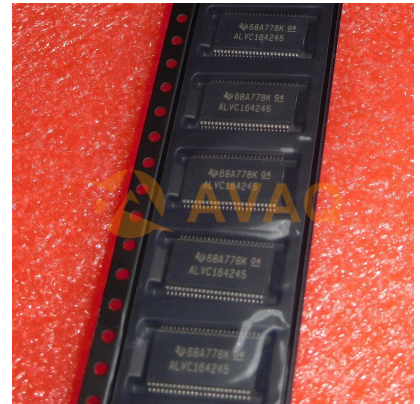


## Voltage Level Translator 16-CH Bidirectional 48-Pin TSSOP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** TSSOP48

**Product Type:** Logic ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

This 16-bit (dual-octal) noninverting bus transceiver contains two separate supply rails. B port has VCCB, which is set to operate at 3.3 V and 5 V. A port has VCCA, which is set to operate at 2.5 V and 3.3 V. This allows for translation from a 2.5-V to a 3.3-V environment, and vice versa, or from a 3.3-V to a 5-V environment, and vice versa.

The SN74ALVC164245 is designed for asynchronous communication between data buses. The control circuitry (1DIR, 2DIR, 1OE, and 2OE) is powered by VCCA.

To ensure the high-impedance state during power up or power down, the output-enable (OE) input should be tied to VCC through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

The logic levels of the direction-control (DIR) input and the output-enable (OE) input activate either the B-port outputs or the A-port outputs or place both output ports into the high-impedance mode. The device transmits data from the A bus to the B bus when the B-port outputs are activated, and from the B bus to the A bus when the A-port outputs are activated. The input circuitry on both A and B ports always is active and must have a logic HIGH or LOW level applied to prevent excess ICC and ICCZ.

### Key Features

Member of the Texas Instruments Widebus Family

Maximum tpd of 5.8 ns at 3.3 V

Control Inputs VIH/VIL Levels Are Referenced to VCCA Voltage

Latch-Up Performance Exceeds 250 mA Per JESD 17

Electronic Points of Sale

Printers and Other Peripherals

Motor Drives

Wireless and Telecom Infrastructures

Wearable Health and Fitness Devices



## Recommended For You

---

### SN74S38N

Texas Instruments, Inc

DIP

### SN7438N

Texas Instruments, Inc

DIP14

### SN75462P

Texas Instruments, Inc

DIP8

### SN74F08D

Texas Instruments, Inc

SOP-14

### SN74LS257BN

Texas Instruments, Inc

DIP16

### SN75452BP

Texas Instruments, Inc

DIP8

### SN74LS245DW

Texas Instruments, Inc

SOP20

### SN74LS74AN

Texas Instruments, Inc

DIP

### SN74S74N

Texas Instruments, Inc

DIP

### SN7406N

Texas Instruments, Inc

DIP-14

### SN74CBTLV3257D

Texas Instruments, Inc

SOP-16P

### SN74HC138DR

Texas Instruments, Inc

SOP16

### SN74LS14N

Texas Instruments, Inc

DIP

### SN74HC139N

Texas Instruments, Inc

DIP

### SN74AVC16T245DGGR

Texas Instruments, Inc

TSSOP48