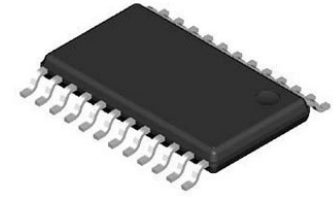


I2C/SMBus Interface 100kHz/400kHz 5.5V 24-Pin TSSOP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: TSSOP24

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The TCA9535 is a 24-pin device that provides 16 bits of general purpose parallel input and output (I/O) expansion for the two-line bidirectional I2C bus or (SMBus) protocol. The device can operate with a power supply voltage ranging from 1.65 V to 5.5 V.

The TCA9535 consists of two 8-bit Configuration (input or output selection), Input Port, Output Port, and Polarity Inversion (active-high or active-low operation) registers. At power on, the I/Os are configured as inputs. The system master can enable the I/Os as either inputs or outputs by writing to the I/O configuration bits.

The TCA9535 is identical to the TCA9555, except that the TCA9535 does not include the internal I/O pull-up resistor, which requires pull-ups and pull-downs on unused I/O pins when configured as an input and undriven.

Key Features

I2C to Parallel Port Expander

Wide Power Supply Voltage Range of 1.65 V to 5 V

Low Standby-Current Consumption

Open-Drain Active-Low Interrupt Output

5-V Tolerant I/O Ports

400-kHz Fast I2C Bus

Polarity Inversion Register

Address by Three Hardware Address Pins for Use of up to Eight Devices

Latched Outputs With High-Current Drive Capability for Directly Driving LEDs

Latch-Up Performance Exceeds 100mA Per JESD78, ClassII

ESD Protection Exceeds JESD22
2000-V Human-Body Model (A114-A)

1000-V Charged-Device Model (C101)

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Recommended For You

TCA9534PWR

Texas Instruments, Inc
TSSOP16

TCA9517DR

Texas Instruments, Inc
SOP8

TCA6416APWR

Texas Instruments, Inc
TSSOP24

TCA6416ARTWR

Texas Instruments, Inc
WQFN24

TCA4311ADGKR

Texas Instruments, Inc
MSOP-8

TCA9554APWR

Texas Instruments, Inc
TSSOP16

TCA9539QPWRQ1

Texas Instruments, Inc
TSSOP24

TCA6408APWR

Texas Instruments, Inc
TSSOP16

TCA9535DBR

Texas Instruments, Inc
SSOP24

TCA9517DGKRQ1

Texas Instruments, Inc
VSSOP8

TCA6408AQPWRQ1

Texas Instruments, Inc
TSSOP16

TCA9535DBT

Texas Instruments, Inc
SSOP24

TCA9803DGKR

Texas Instruments, Inc

MSOP8

TCA9554ADBQR

Texas Instruments, Inc

SSOP16

TCA9534APWR

Texas Instruments, Inc

TSSOP16