

TCA9554APWR

I2C/SMBus Interface 100kHz/400kHz 5.5V 16-Pin TSSOP T/R

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: TSSOP16

Product Type: Drivers

RoHS: RoHS Compliant/Lead free

Lifecycle: Active



Images are for reference only

Inquiry

General Description

The TCA9554 is a 16-pin device that provides 8 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 device supports both 100-kHz (Standard-mode) and 400-kHz (Fast-mode) clock frequencies. I/O expanders such as the TCA9554 provide a simple solution when additional I/Os are needed for switches, sensors, push-buttons, LEDs, fans, and other similar devices.

The features of the TCA9554 include an interrupt that is generated on the INT pin whenever an input port changes state. The A0, A1, and A2 hardware selectable address pins allow up to eight TCA9554 devices on the same I2C bus. The device can also be reset to its default sate by cycling the power supply and causing a power-on reset.

Key Features

I2C to Parallel Port Expander

Open-Drain Active-Low Interrupt Output

Operating Power-Supply Voltage Range of 1.65V to 5.5V

5-V Tolerant I/O Ports

400-kHz Fast I2C Bus

Three Hardware Address Pins Allow up to Eight Devices on the I2C/SMBus

Input and Output Configuration Register

Polarity Inversion Register

Internal Power-On Reset

Low Standby Current Consumption

Power-Up With All Channels Configured as Inputs

No Glitch on Power Up

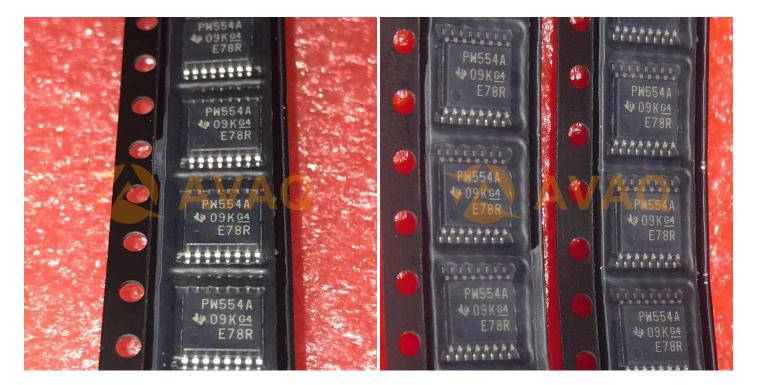
Noise Filter on SCL/SDA Inputs

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

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

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

1000-V Charged-Device Model (C101)



Recommended For You

TCA9534PWR

TCA9517DR

TCA6416APWR

Texas Instruments, Inc

Texas Instruments, Inc

Texas Instruments, Inc

TSSOP16

SOP8

TCA9539QPWRQ1

Texas Instruments, Inc

TCA6416ARTWR

Texas Instruments, Inc

TCA4311ADGKR

Texas Instruments, Inc

WQFN24

MSOP-8

TSSOP24

TSSOP24

TCA6408APWR

TCA9535DBR

TCA9517DGKRQ1

Texas Instruments, Inc

Texas Instruments, Inc

Texas Instruments, Inc

TSSOP16

SSOP24

VSSOP8

TCA6408AQPWRQ1

TCA9535DBT

TCA9803DGKR

Texas Instruments, Inc

Texas Instruments, Inc

Texas Instruments, Inc

TSSOP16

SSOP24

MSOP8

TCA9554ADBQR

TCA9534APWR

TCA9536DGKR

Texas Instruments, Inc

Texas Instruments, Inc

Texas Instruments, Inc

SSOP16

TSSOP16

VSSOP-8