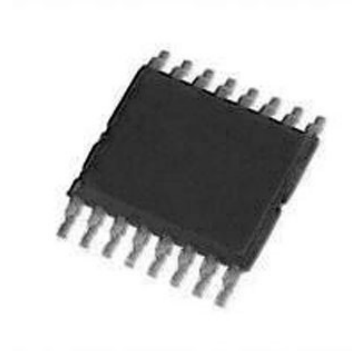


I/O Expander, I, 2C / SMBus, 8-bit, with Interrupt

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	TSSOP-16
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PCA9654EDTR2G or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The PCA9654E provides 8 bits of General Purpose parallel Input/Output (GPIO) expansion for I2C-bus/SMBus applications. The PCA9654E consists of 8-bit Configuration (Input or Output selection); Input, Output and Polarity Inversion (active HIGH or active LOW operation) registers. The system master may set the I/Os as either inputs or outputs by writing to the I/O configuration bits. The data for each Input or Output is kept in the corresponding Input or Output register. The polarity of the read register can be inverted with the Polarity Inversion register. All registers can be read by the system master. The PCA9654E open-drain interrupt (INTb) output is activated when any input state differs from its corresponding input port register state and is used to indicate to the system master that an input state has changed. The power-on reset sets the registers to their default values and initializes the device state machine. Three hardware pins (AD0, AD1, AD2) vary the fixed I2C bus address and allow up to 64 devices to share the same I2C-bus/SMBus.

## Features

VDD Operating Range: 1.65 V to 5.5 V

SDA Sink Capability: 30 mA

5.5 V Tolerant I/Os

Polarity Inversion Register

Active LOW Interrupt Output

Low Standby Current

Noise Filter on SCL/SDA Inputs

No Glitch on Power-up

Internal Power-on Reset

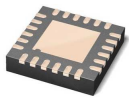
64 Programmable Slave Addresses Using 3 Address Pins

8 I/O Pins which Default to 8 Inputs

## Application

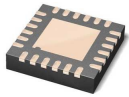
ONSEMI

## Related Products



### [PCA9535EMTTXG](#)

ON Semiconductor, LLC  
QFN-24



### [PCA9655EMTTXG](#)

ON Semiconductor, LLC  
QFN-24



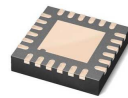
### [PCA9535ECDWR2G](#)

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SOIC-24



### [NLAS3899BMNTXG](#)

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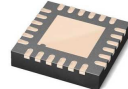
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