
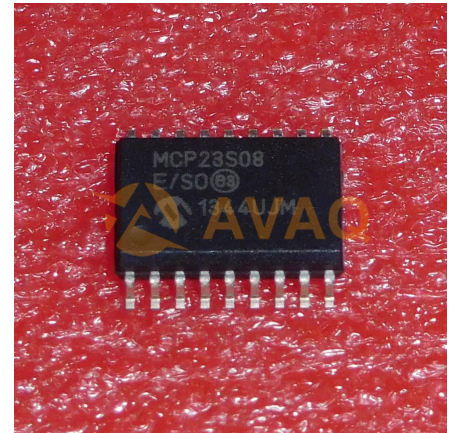


## SPI Interface 10000kHz 5.5V 18-Pin SOIC W Tube

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	SOP18
<b>Product Type:</b>	Drivers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

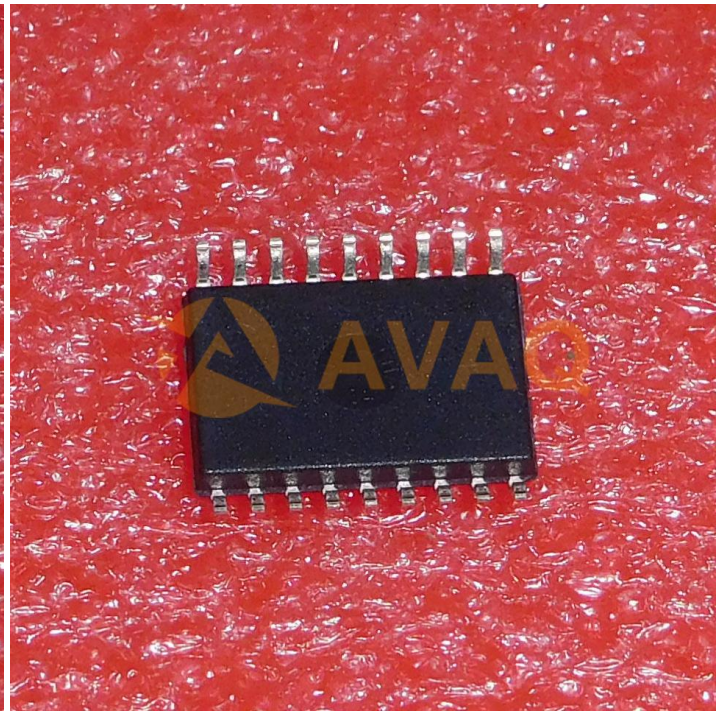
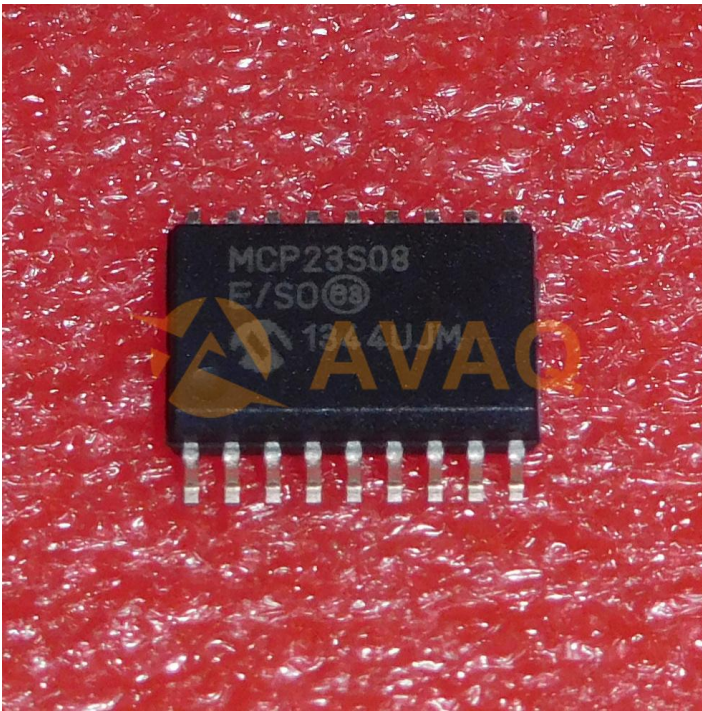
[Inquiry](#)

## General Description

The MCP23X08 device provides 8-bit, general purpose, parallel I/O expansion for I2C bus or SPI applications. The two devices differ in the number of hardware address pins and the serial interface: • MCP23008 – I2C interface; three address pins • MCP23S08 – SPI interface; two address pins The MCP23X08 consists of multiple 8-bit configuration registers for input, output and polarity selection. The system master can enable the I/Os as either inputs or outputs by writing 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 Input Port register can be inverted with the Polarity Inversion register. All registers can be read by the system master.

## Key Features

- 1 Address inputs for up to 4 devices on one bus
- 25mA Sink/source capability per I/O
- Supports up to 10MHz SPI™ clock speed
- Internal power-on-reset (POR)
- Polarity inversion register to configure polarity of input port data
- External reset input
- 1μA (maximum) Low standby current



## Recommended For You

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### TMC2005-JT

Microchip Technology, Inc

64-LQFP

### MCP23008-E/SO

Microchip Technology, Inc

SOP18

### MCP2140A-I/P

Microchip Technology, Inc

PDIP

### LE89900AMC

Microchip Technology, Inc

MSOP10

### MCP23008T-E/SS

Microchip Technology, Inc

SSOP-18

### MCP2021-500E/SN

Microchip Technology, Inc

SOP8

### MCP23009-E/MG

Microchip Technology, Inc

QFN16

### MCP23S18-E/SP

Microchip Technology, Inc

DIP28

### MCP23016-I/SO

Microchip Technology, Inc

SOP

### MCP2003B-E/SN

Microchip Technology, Inc

SOP8

### MCP2221-I/ML

Microchip Technology, Inc

QFN4x4

### MCP23008-E/P

Microchip Technology, Inc

DIP18

### MCP2003-E/SN

Microchip Technology, Inc

SOP8

### LPC47MI07S-MC

Microchip Technology, Inc

QFP

### MCP23018-E/SP

Microchip Technology, Inc

DIP-28