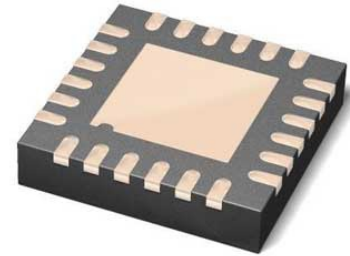


I/O Expander, 16bit, 3.4 MHz, I2C, Serial, SPI, 1.8 V, 5.5 V, QFN

Manufacturers	Microchip Technology, Inc
Package/Case	QFN-24
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP23S18-E/MJ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP23X18 device provides 16-bit, general purpose parallel I/O expansion for I2C bus or SPI applications. The two devices differ only in the serial interface. • MCP23018 - I2C interface • MCP23S18 - SPI interface The MCP23X18 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.

Features

16-bit remote bidirectional I/O port

Open-drain outputs:

5.5V tolerant

25 mA sink

400 mA total current out

Low standby current as low as 1 μ A

High-speed I2C™ interface up to 3.4MHz

Single hardware address pin: Voltage input to allow up to eight devices on the bus

Configurable interrupt output pins: Configurable as active-high, active-low or open-drain

Low standby current: 1 μ A (typ.)

Related Products



[MCP23008T-E/SO](#)

Microchip Technology, Inc
SOIC-18



[MCP2551-I/P](#)

Microchip Technology, Inc
PDIP-8



[MCP25625T-E/ML](#)

Microchip Technology, Inc
QFN-28



[MCP2210-I/SO](#)

Microchip Technology, Inc
SOP-20



[MCP23008T-E/ML](#)

Microchip Technology, Inc
QFN-20



[MCP2515T-I/SO](#)

Microchip Technology, Inc
SOIC-18



[MCP2515T-I/ST](#)

Microchip Technology, Inc
TSSOP-20



[MCP2562FDT-H/SN](#)

Microchip Technology, Inc
SOIC-8