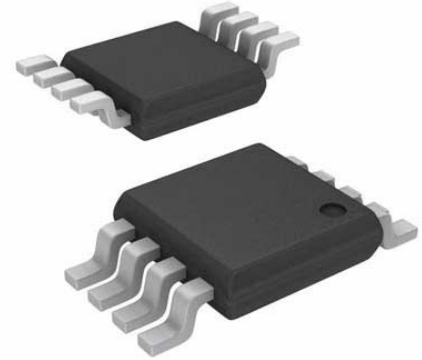


## SENSOR TEMP I2C/SMBUS 8MSOP

|               |   |
|---------------|---|
| Manufacturers | <a href="#">Microchip Technology, Inc</a> |
| Package/Case  | MSOP-8                                    |
| Product Type  | Integrated Circuits (ICs)                 |
| RoHS          |   |
| Lifecycle     |   |



Images are for reference only

Please submit RFQ for AT30TS74-XM8M-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Microchip's AT30TS74 temperature sensor is capable of measuring and converting temperatures from -55°C to +125°C to a digital word and provides a typical accuracy of  $\pm 1.0^{\circ}\text{C}$  over the operating temperature range of -20°C to +100°C. The device is factory calibrated and requires no external components to help provide a cost effective solution. To reduce current consumption and save power, the AT30TS74 features a shutdown mode which turns off all internal circuitry except for the internal power-on reset and serial interface circuits. In addition, the device features a power saving one-shot mode that allows the device to make a temperature measurement and update the temperature register and then return to shutdown mode. The AT30TS74 is based on the industry standard "LM75-type" compatible temperature sensor and is a precision temperature monitoring device designed for use in a variety of applications. The device combines a highly accurate digital temperature sensor with programmable high and low temperature alarms, user-selectable resolution up to 12 bits, and an I2C/SMBus compatible serial interface available in compact packages.

## Features

2-wire I<sup>2</sup>C™/SMBus Compatible Interface

Single 1.7V to 5.5V Supply

I2C High-Speed (HS) Mode Compatible-3.4MHz Maximum Clock Frequency

User Selectable 9- to 12-Bit Resolution

Low Operating Current: 130  $\mu\text{A}$  (typical)

Shutdown Mode: 0.6 $\mu\text{A}$  (typical)

Power Saving One-Shot Temperature Conversion Measurement

Space Saving SOIC, DFN, MSOP and Wafer level CSP Packages available

## Related Products



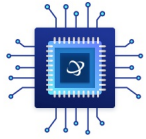
### [ATA6563-GAQW0](#)

Microchip Technology, Inc  
SOIC-8



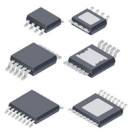
### [AT30TSE004A-MAA5M-T](#)

Microchip Technology, Inc  
WDFN-8



### [ATMEGA808-MU](#)

Microchip Technology, Inc



### [ATTINY3226-SU](#)

Microchip Technology, Inc  
SOIC



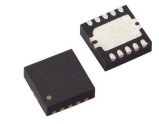
### [AT42QT1040-MMHR](#)

Microchip Technology, Inc  
VQFN-20



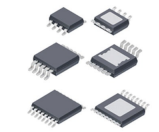
### [AT30TS74-SS8M-T](#)

Microchip Technology, Inc  
SOIC-8



### [ATSAMC21G17A-MZTVAO](#)

Microchip Technology, Inc  
VQFN



### [ATTINY3224-SSU](#)

Microchip Technology, Inc  
SOIC