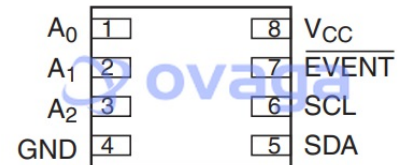


Board Mount Temperature Sensors 1-ch TmpSnsr 4K SPEE I2C 1.7V-3.6V-1MHz

| | |
|---------------|---|
| Manufacturers | Microchip Technology, Inc |
| Package/Case | WDFN-8 |
| Product Type | Integrated Circuits (ICs) |
| RoHS | |
| Lifecycle | |



Images are for reference only

Please submit RFQ for AT30TSE004A-MAA5M-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The Microchip AT30TSE004A is a 1.7V rated minimum operating voltage combination Serial EEPROM and temperature sensor device containing 4096-bits of EEPROM organized as 512-bytes of eight bits each. The Serial EEPROM operation is tailored specifically for DRAM memory modules with Serial Presence Detect (SPD).

The integrated temperature sensor converts temperatures from -20°C to $+125^{\circ}\text{C}$ to a digital word and provides a typical accuracy of $\pm 1.0^{\circ}\text{C}$ over the operating temperature range of $+75^{\circ}\text{C}$ to $+95^{\circ}\text{C}$. The device incorporates flexible user programmable internal registers to configure the temperature sensor's performance and response to over and under temperature conditions. The AT30TSE004 supports the industry standard 2-wire I2C Fast-Mode Plus serial interface allowing device communication to operate at up to 1MHz.

Features

Meets JEDEC Specification- JC42.4-TSE2004B1 Temperature Sensor with 4 Kbit Serial EEPROM for Serial Presence Detect (SPD)

1MHz, 2-wire I2C™ Interface

Specified VDD Range: 1.7V to 3.6V

Available Package: DFN-8

Temperature Sensor Features

Temperature-to-Digital Converter (°C)

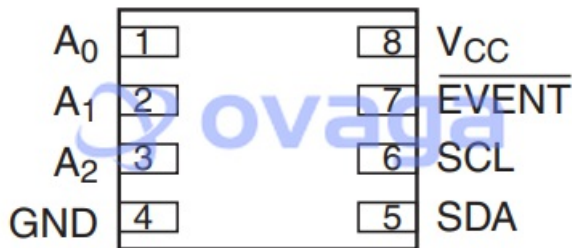
Sensor Accuracy (Grade B)

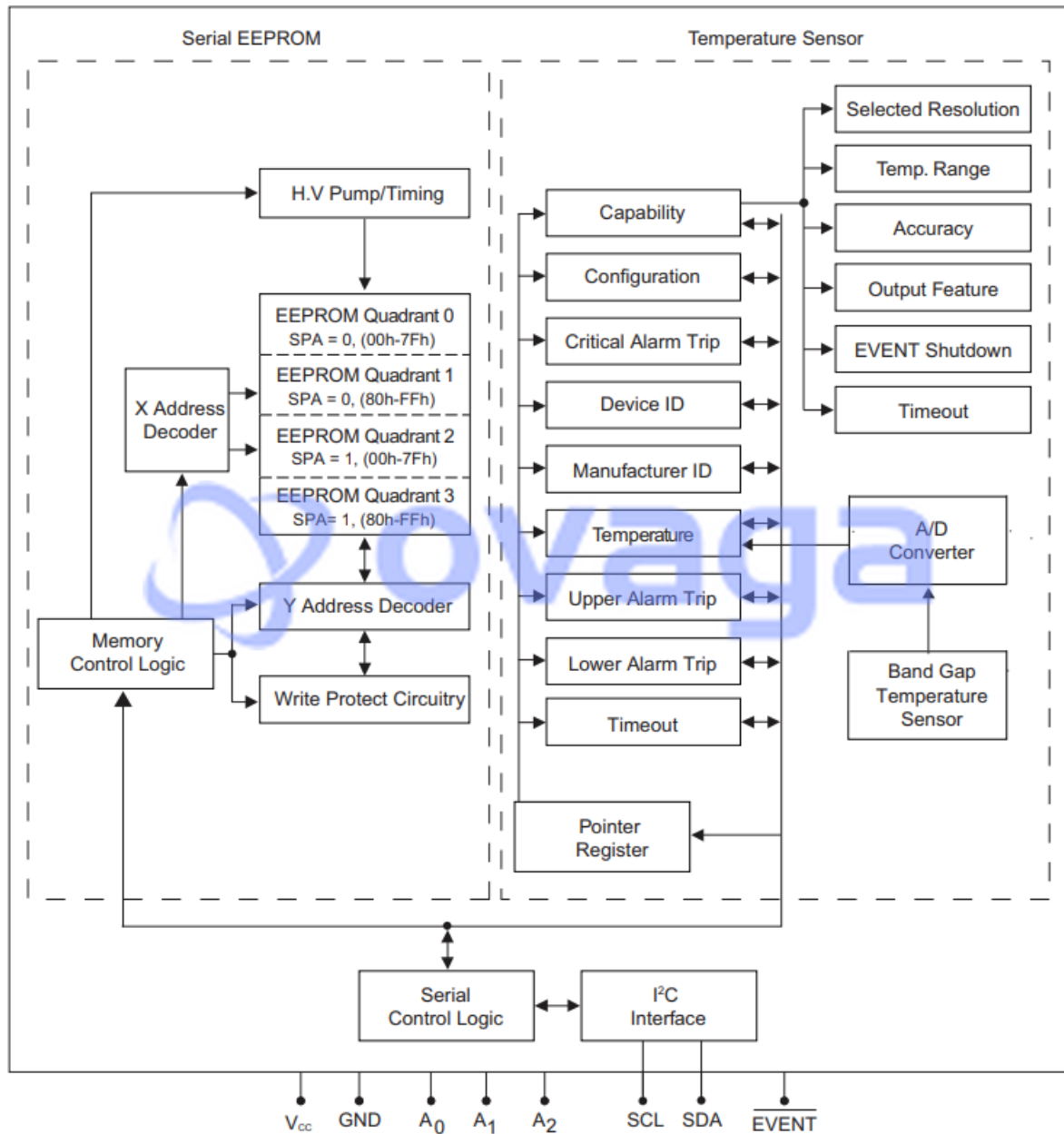
Serial EEPROM Features

Organized as 2 banks of 256 x 8-bit (2 Kbit x 2)

Reversible Software Write Protect

Software Write Protection for each 1 Kbit Block





Related Products



[ATA6563-GAQW0](#)

Microchip Technology, Inc
SOIC-8



[AT42QT1040-MMHR](#)

Microchip Technology, Inc
VQFN-20



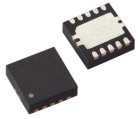
[AT30TS74-SS8M-T](#)

Microchip Technology, Inc
SOIC-8



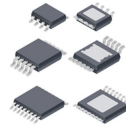
[ATMEGA808-MU](#)

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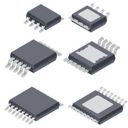
[ATSAMC21G17A-MZTVAO](#)

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VQFN



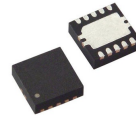
[ATTINY3226-SU](#)

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