

SiVi-T18009

TSMC 180nm G (1P4M)



MAIN FEATURES

- Designed on TSMC 180nm-G
- On Chip Accurate Temperature Sensor
- One Point Calibration Mode
- Accuracy without Calibration (± 4 C $^{\circ}$) in the range from -10 to 50 C $^{\circ}$
- Accuracy with Calibration (± 1 C $^{\circ}$) in the range from -10 to 50 C $^{\circ}$
- Accuracy with Calibration (± 2 C $^{\circ}$) in the range from -40 to 125 C $^{\circ}$
- 9bit monitoring ADC
- Supply Voltage 1.8V (+/-10%)
- Analog Supply Current: 0.25mA
- Operational temperature range from -40°C to 125°C

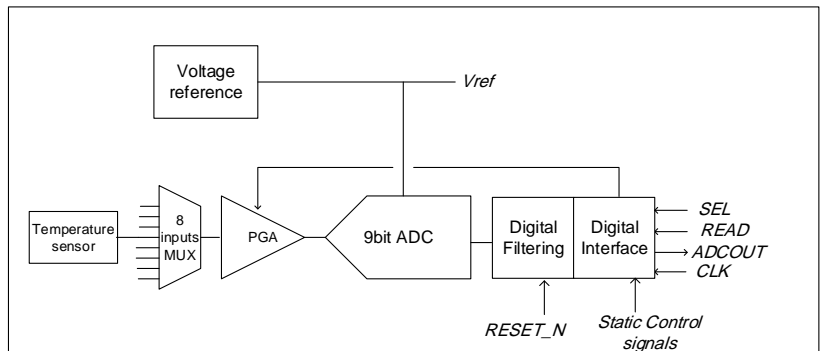
IP DESCRIPTION

Silicon Vision SiVi-T18009 offers a high performance and cost-effective solution for a temperature sensor with a monitoring ADC. The ADC output can be either a representation of the IC junction temperature or a digital code corresponding to one of the seven other analog inputs.

SiVi-T18009 is implemented on TMC 180nm-G CMOS with a supply voltage is 1.8V and consumes only 250uA.

APPLICATIONS

- Accurate Temperature Sensing
- Monitoring Analogue Voltages or Currents from External Sensing Devices



Block Diagram for SiVi-T18009



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