

GX122 0.5°C Programmable Digital Temperature Sensor with SPI Interface

FEATURES

- Digital output: SPI compatible interface
- Programmable resolution: 9 to 12 bits + sign bit
- Accuracy: $\pm 0.3^{\circ}\text{C}$ $-25^{\circ}\text{C}\sim+85^{\circ}\text{C}$ (typical)
 $\pm 0.5^{\circ}\text{C}$ $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$ (typical)
- Low quiescent current: 50 μA
- Wide range of power supply: 2.7V to 5.5V
- Small SOT23-6 package
- Can operate at 150°C
- Programmable high/low setpoints

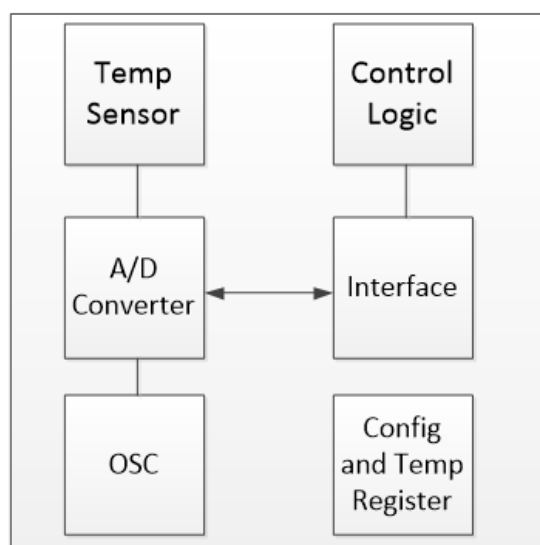
APPLICATION

- Automotive pressure sensor
- Power supply temperature monitoring
- Computer Peripheral Thermal Protection
- laptop
- Phone
- Battery management
- Office machine
- Thermostat control
- Environmental Monitoring and HVAC
- Electromechanical equipment temperature

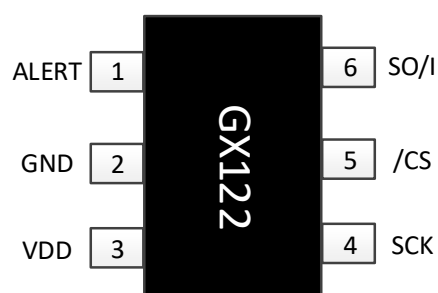
DESCRIPTION

The GX122 is an SPI compatible temperature sensor available in a SOT23-6 package. The GX122 temperature sensor only needs a pull-up resistor to achieve a typical temperature accuracy of 0.3°C in the temperature range of -25°C to $+85^{\circ}\text{C}$, and the operating temperature is as high as 150°C. Programmable resolution, programmable set point and shutdown function provide versatility for any

application. Low supply current and a power supply range from 2.7V to 5.5V make the GX122 an excellent candidate for low power applications. The GX122 is ideal for extended thermal measurement in a variety of communications, computer, consumer, environmental, industrial, and instrumentation applications.



PIN CONFIGURATIONS



16 Ordering Information

Purchase Number	Device	PIN-Package	SPQ	Remarks
GX122S-T&R	GX122S	SOT23-6	3000	Tape and reel