

GX0011

2-Pin Digital Temperature Sensor With Pulse Count Interface

1 Features

- Alternative to the NTC thermistor
- Accuracy : $\pm 1.0^{\circ}\text{C}$ ($-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$)
- Supply Voltage : 1.4V ~ 5.5V
- Operating Temperature : $-50^{\circ}\text{C} \sim +150^{\circ}\text{C}$
- Quiescent current : 30uA (typ)
- Resolution : 12-bits (0.0625°C)
- Digital Output : Pulse Count

2 Applications

- Digital Output Wired Probes
- Consumer Electronics
- White Goods
- Industrial Controls

3 Description

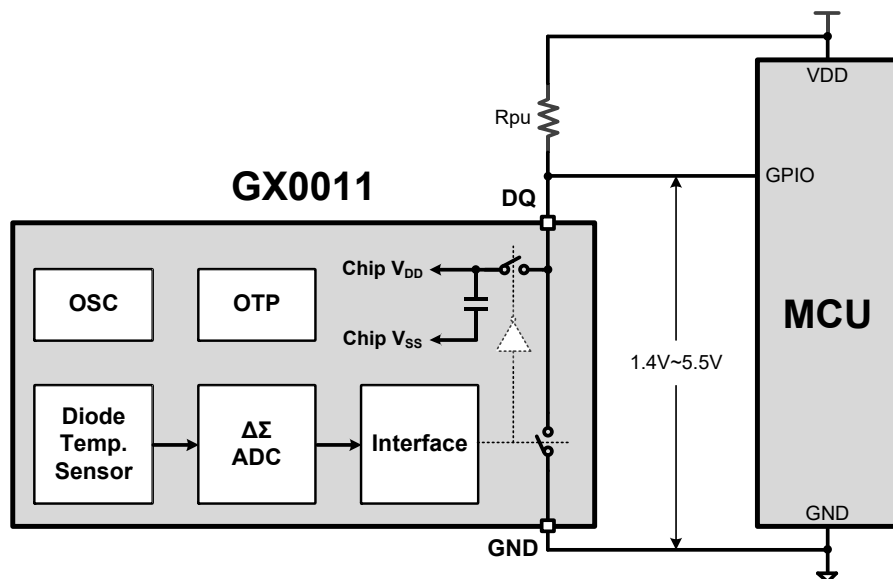
GX0011 is a fully integrated digital temperature sensor, which can achieve 12-bit (0.0625°C) temperature output without any external temperature sensing unit.

The GX0011 comes in the DFN-2 and TO-92S packages, making it a direct replacement for the NTC thermistor and much easier to use.

The GX0011 supports one-line pulse counting communication. Only a single signal line is needed to complete the chip power supply and communication output function at the same time.

Device Information

Part Number	Package	Body Size (NOM)
GX0011D	DFN (2)	1.60 mm × 0.80 mm
GX0011S	TO-92S (3)	4.00 mm × 3.15 mm
GX0011WS	TO-92S-2 (2)	4.00 mm × 3.15 mm
GX0011WS2	TO-92S-2C (2)	4.00 mm × 3.15 mm



9 Order Information

Order PN	Device	Package	SPQ	Remark
GX0011D-T&R	GX0011D	DFN (2)	4000	tape and reel
GX0011S-Bu	GX0011S	TO-92S (3)	2000	bulk
GX0011WS-Bu	GX0011WS	TO-92S-2 (2)	2000	bulk
GX0011WS2-Bu	GX0011WS2	TO-92S-2C (2)	2000	bulk