

1 Features

- Temperature accuracy: $\pm 0.2\text{ }^{\circ}\text{C}$
- Supply voltage: 1.6 V to 5.5 V
- Average current: 0.4 μA (at meas. rate 1 Hz)
- Idle current: 0.1 μA
- Resolution: 0.01 $^{\circ}\text{C}$
- Operating range: -40 $^{\circ}\text{C}$ ~125 $^{\circ}\text{C}$
- Communication Interface: I²C, up to 1 MHz
- NIST traceability
- JEDEC JESD47 qualification
- Package Information:

PRODUCT	PACKAGE	DETAILS
GXTS40D-AD	DFN4	See Fig.2, addr:0x44
GXTS40D-BD	DFN4	See Fig.2, addr:0x45

2 Applications

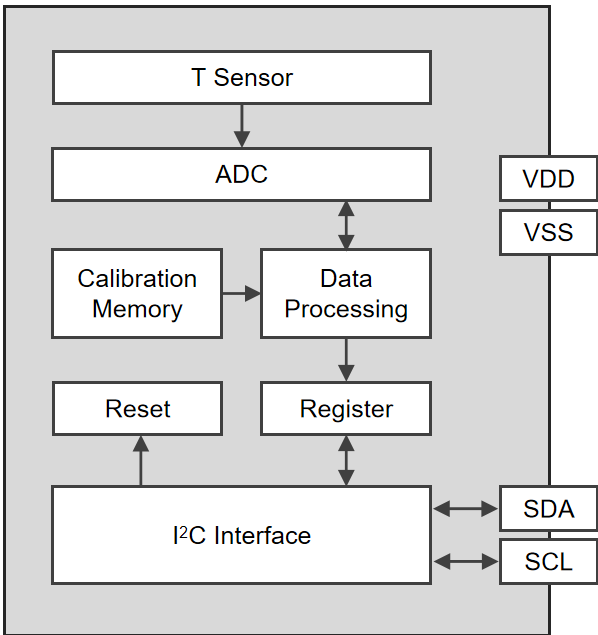
- Industrial control
- Smart home
- Consumer electronics
- Medical devices

3 Description

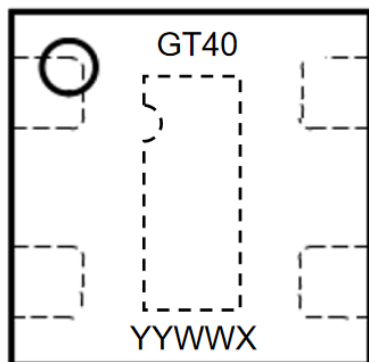
GXTS40 is a fully digital temperature sensor of Galaxy-CAS, which can offer configurable I²C addresses. The I²C interface provides multiple preconfigured I²C addresses and enables an ultra-low power budget.

Designed to cost, this four-pin dual-flat-no-leads package is suitable for surface mount technology (SMT) processing.

Functional Block Diagram of GXTS40.



8.4 Marking Information



GT40: indicates the model GXTS40;

YYWWX: YY is the year, WW is the week, X is the internal version number. For example, 25166 indicates production in the 16th week of 2025, version 6.

9 Ordering Information

ORDER NUMBER	DEVICE	PACKAGE	SPQ	NOTE
GXTS40D-AD-R2-T&R	GXTS40D-AD	DFN-4	2000	Addr:0x44, Tape & Reel
GXTS40D-AD-R3-T&R	GXTS40D-AD	DFN-4	10000	Addr:0x44, Tape & Reel
GXTS40D-BD-R2-T&R	GXTS40D-BD	DFN-4	2000	Addr:0x45, Tape & Reel
GXTS40D-BD-R3-T&R	GXTS40D-BD	DFN-4	10000	Addr:0x45, Tape & Reel